DENON

Ver. 1

SERVICE MANUAL

MODEL	JP	E3	E2	EK	E2A	E1C	E1K	EUT
DVD-2500BTCI		✓						

BLU-RAY DISC/DVD VIDEO TRANSPORT

注　意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

- **For purposes of improvement, specifications and design are subject to change without notice.**
- 本機の仕様は性能改良のため、予告なく変更することがあります。
- 補修用性能部品の保有期間は、製造打切後 8 年です。

- **Please use this service manual with referring to the operating instructions without fail.**
- 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。

- **Some illustrations using in this service manual are slightly different from the actual set.**
- 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON

Denon Brand Company, D&M Holdings Inc.

X0374 V.01 DE/CDM 0801

--- MEMO---

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

LASER RADIATION

Caution - Class 1M visible and invisible laser radiation when open.
Do not view directly with optical instruments.

CAUTION **Please heed the points listed below during servicing and inspection.**

◎Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels or seals. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎Caution concerning electric shock!

(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2)There are high voltage parts inside. Handle with extra care when the set is energized.

◎Caution concerning disassembly and assembly!

Though great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked ⚠ on wiring diagrams and parts lists, be sure to use the designated parts.

◎Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires inside and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎Cautions concerning the power supply!

Current continues to flow in the set for 10 to 20 seconds after the power cord is unplugged. Wait until the power LED turns completely off before proceeding

◎Inspect for safety after servicing!

Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)
Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION **Concerning important safety parts**

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists is this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ... Indicated by the ⚠ mark.

(2) Parts lists ... Indicated by the ⚠ mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

注　意 **サービス、点検時にはつぎのことにご注意願います。**

◎注意事項をお守りください！

サービスのとき特に注意を必要とする個所についてはキャビネット、部品、シャーシなどにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書などの注意事項を必ずお守りください。

◎感電に注意！

(1) このセットは、交流電圧が印加されていますので通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどして感電にご注意ください。

(2) 内部には高電圧の部分がありますので、通電時の取扱には十分ご注意ください。

◎分解、組み立て作業時のご注意！

板金部品の端面の『バリ』は、部品製造時に充分管理をしておりますが、板金端面は鋭利となっている箇所が有りますので、部品端面に触れたまま指を動かすとまれに怪我をする場合がありますので十分注意して作業して下さい。手の保護のために手袋を着用してください。

◎指定部品の使用！

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用してください。特に配線図、部品表に ⚠ 印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◎部品の取付けや配線の引きまわしは、元どおりに！

安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパーによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにしてください。

◎電源に注意！

このセットは電源プラグを抜いても、十数秒間通電していますので、電源 LED が完全に消灯してからサービス作業を実施してください。

◎サービス後は安全点検を！

サービスのために取り外したねじ、部品、配線などが元どおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、外部金属端子部と、電源プラグの刃の間の絶縁チェックをおこなうなど、安全性が確保されていることを確認してください。

（絶縁チェックの方法）
電源コンセントから電源プラグを抜き、アンテナやプラグなどを外し、電源スイッチを入れます。500V 絶縁抵抗計を用いて、電源プラグのそれぞれの端子と外部露出金属部［アンテナ端子、ヘッドホン端子、マイク端子、入力端子など］との間で、絶縁抵抗値が 1 MΩ 以上であることを確認してください。この値以下のときはセットの点検修理が必要です。

注　意 **安全上重要な部品について**

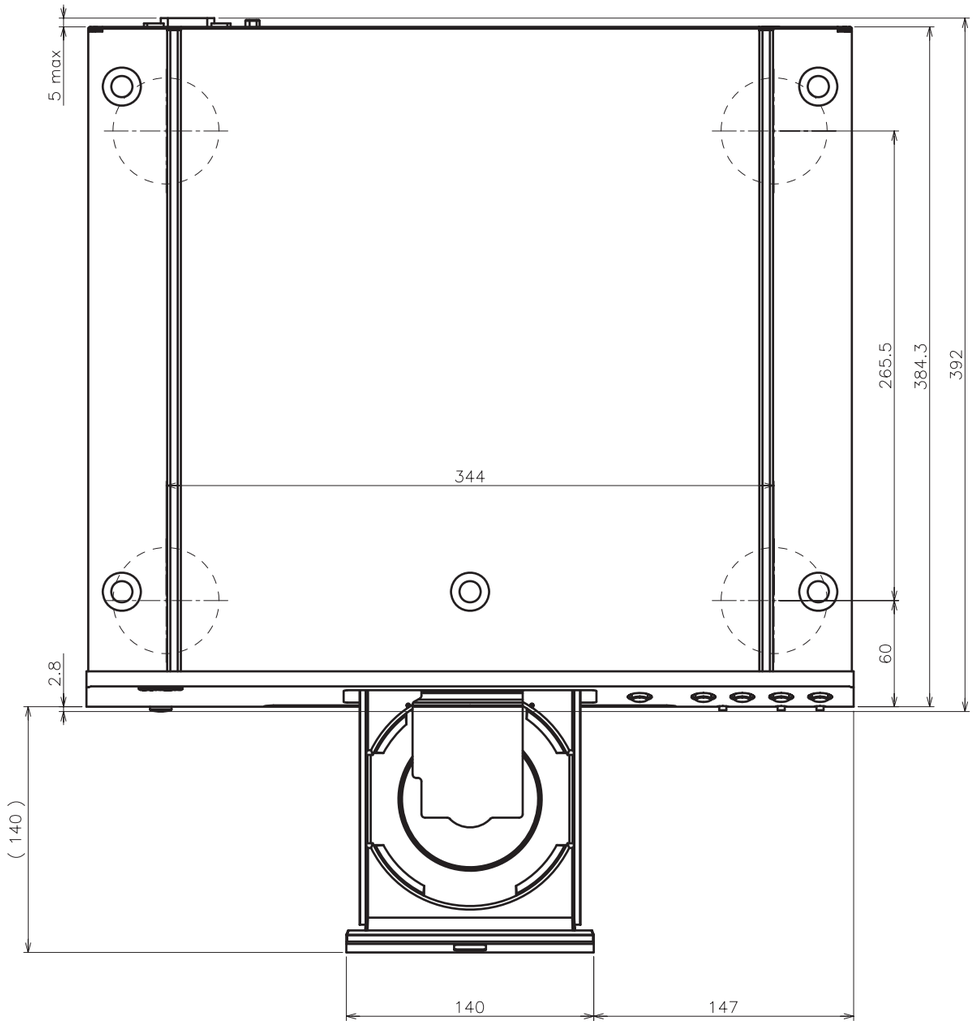
本機に使用している多くの電気部品、および機構部品は安全上、特別な特性を持っています。この特性はほとんどの場合、外観では判別つきにくく、またもとの部品より高い定格（定格電力、耐圧）を持ったものを使用しても安全性が維持されるとは、限りません。安全上の特性を持った部品は、このサービスマニュアルの配線図、部品表につぎのように表示していますので必ず指定されている部品番号のものを使用願います。

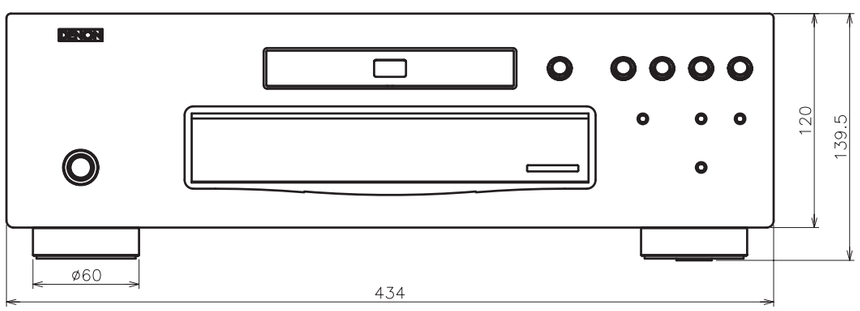
(1) 配線図…⚠ マークで表示しています。

(2) 部品表…⚠ マークで表示しています。

指定された部品と異なるものを使用した場合には、感電、火災などの危険を生じる恐れがあります。

DIMENSION

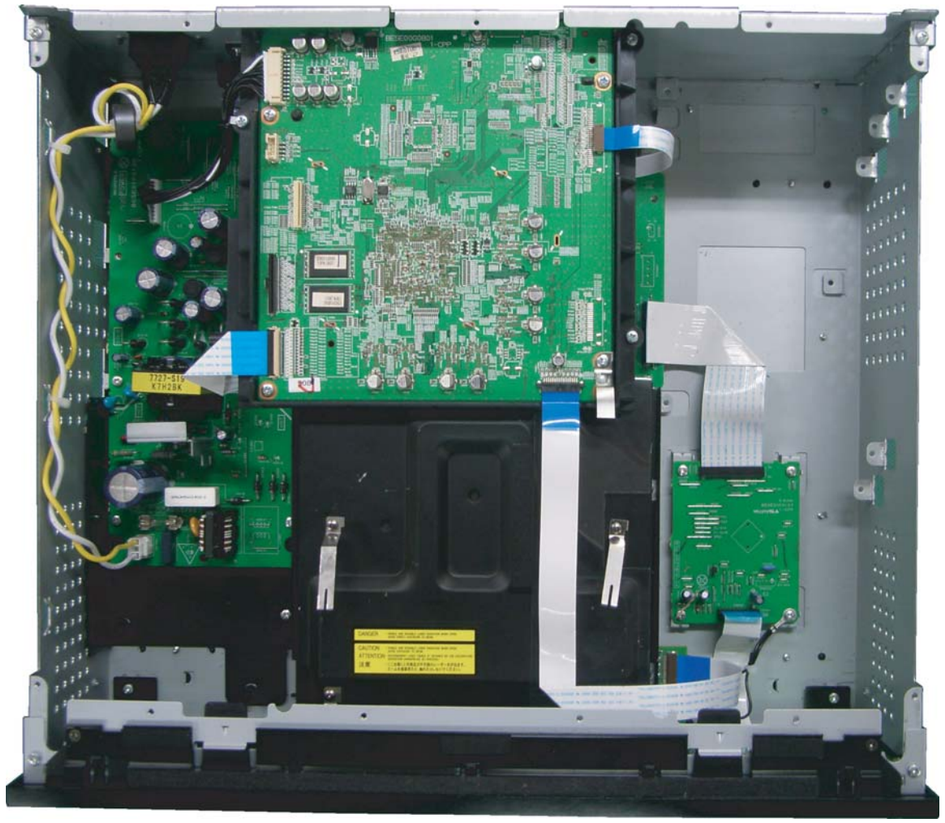




WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top



SPECIFICATIONS

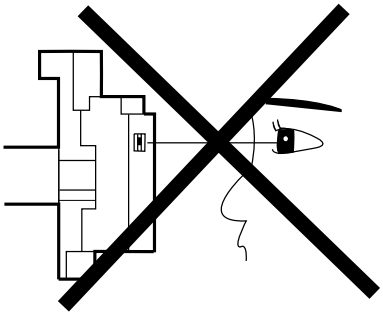
Item	
HDMI Output	Output jack: 19-pin HDMI terminal, 1 set HDMI (Deep Color, Dolby Digital Plus, Dolby TrueHD, DTS-HD)

Note:

1. Power supply: AC 120 V, 60 Hz

LASER BEAM SAFETY PRECAUTIONS

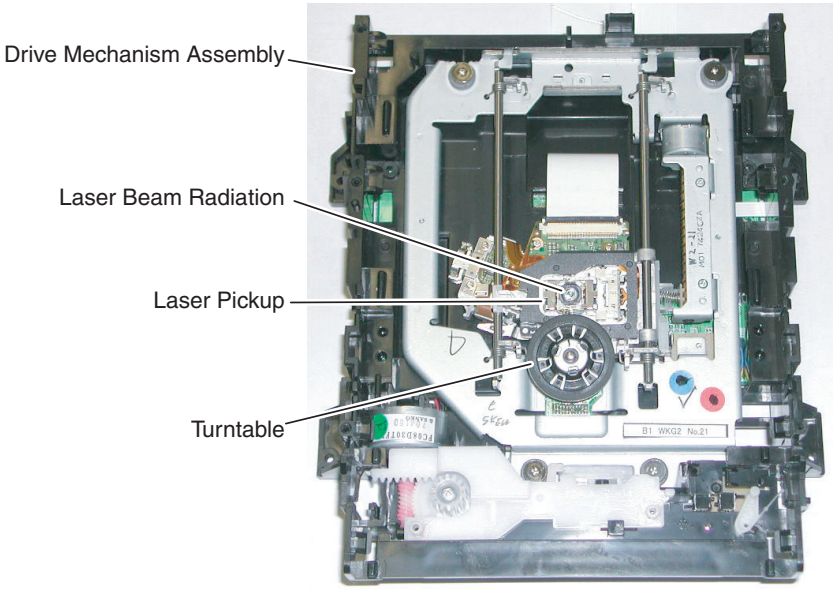
This BD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



CAUTION
LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.

Location: Top of BD mechanism.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
120 V	≥ 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

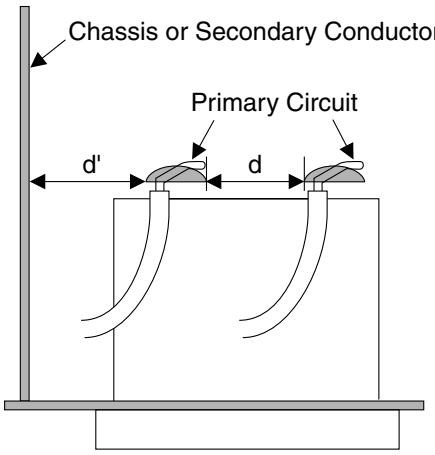


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

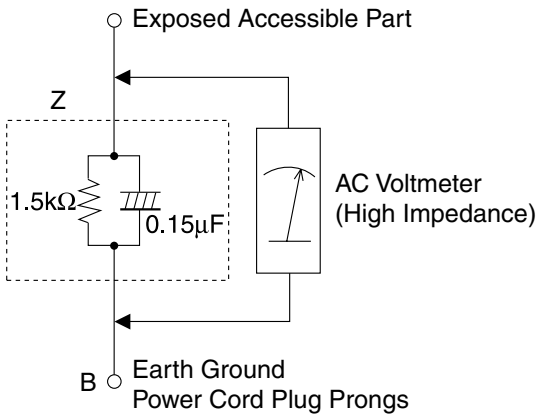


Fig. 2

Table 2: Leakage current ratings for selected areas

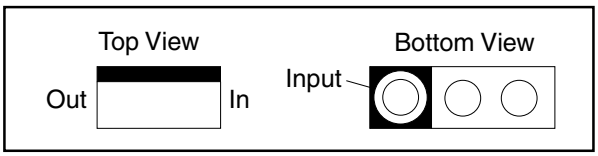
AC Line Voltage	Load Z	Leakage Current (i)	Earth Ground (B) to:
120 V	0.15 µF CAP. & 1.5 kΩ RES. Connected in parallel	i ≤ 0.5 mA Peak	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

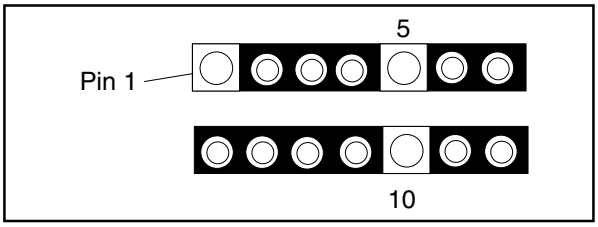
STANDARD NOTES FOR SERVICING

Circuit Board Indications

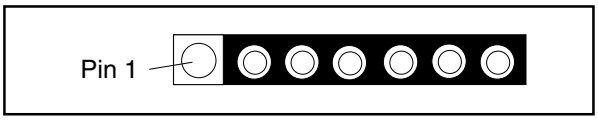
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

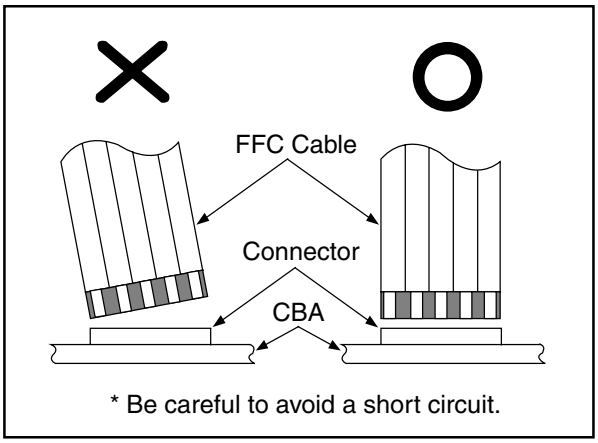


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

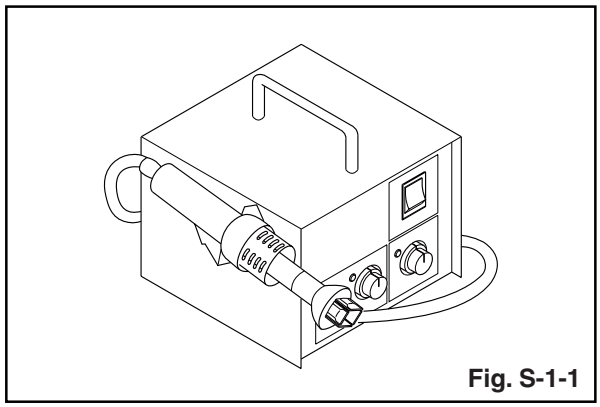


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

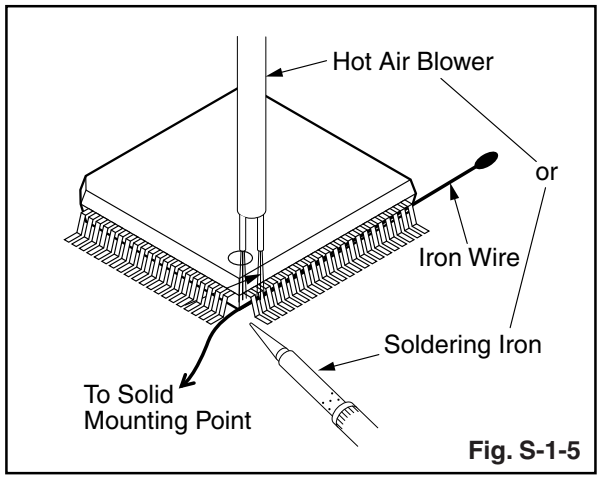


Fig. S-1-5

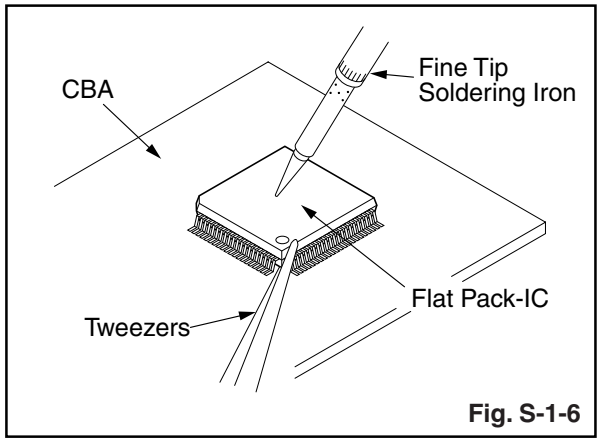


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

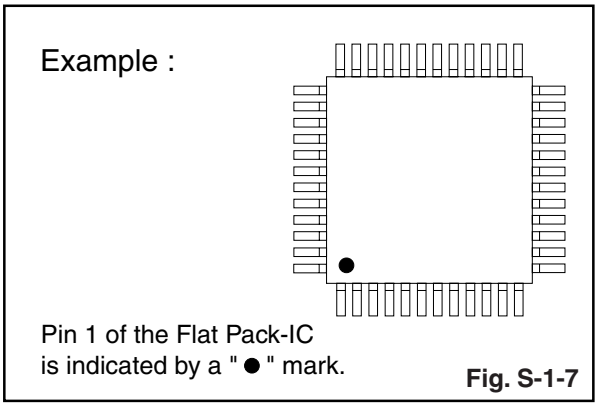


Fig. S-1-7

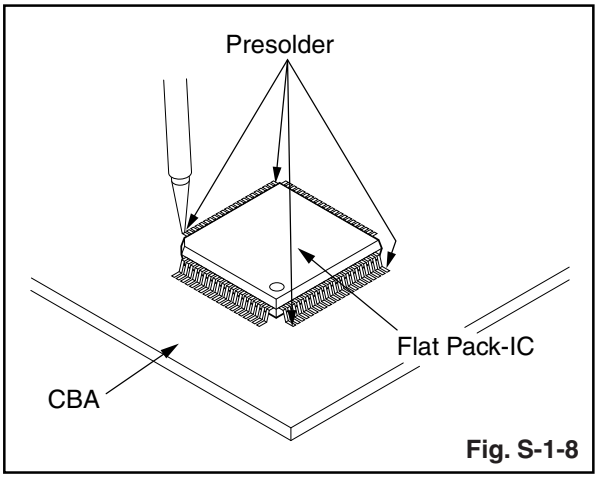


Fig. S-1-8

Instructions for Handling Semi-conductors

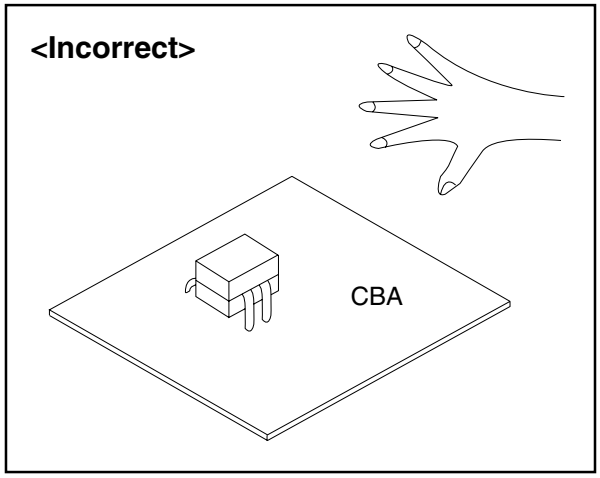
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

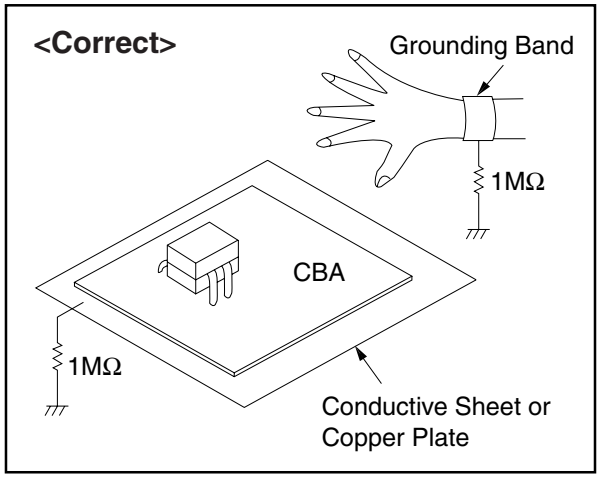
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

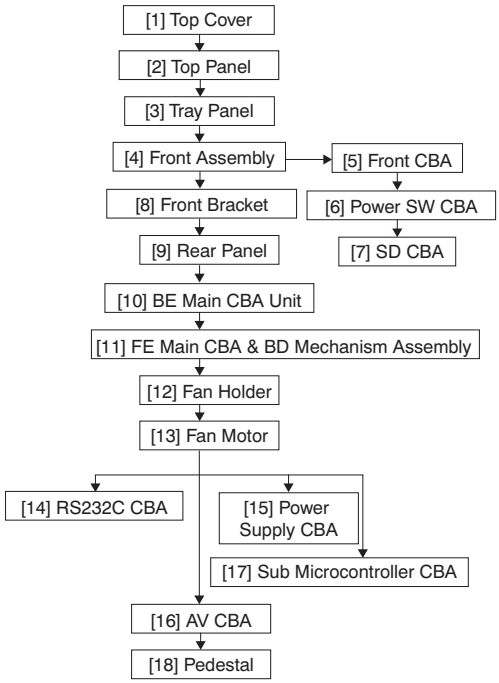




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly of Main parts

When replacing the main parts, see the following procedures. For more details, refer to Fig. D1~D9.

	Part	Steps
[10]	BE Main CBA Unit	[1] → [2] → *[9](S-14) → [10]
[11]	FE Main CBA & BD Mechanism Assembly	[1] → [2] → [3] → *[9](S-14) → [10] → [11]
[12]	Fan Holder	[1] → [2] → *[9](S-14) → [10] → [12]
[13]	Fan Motor	[1] → [2] → *[9](S-14) → [10] → [12] → [13]
[14]	RS232C CBA	[1] → [2] → [9] → [10] → [14]
[15]	Power Supply CBA	[1] → [2] → *[9](S-14) → [12] → [15]
[16]	AV CBA	[1] → [2] → [3] → [9] → [10] → [11] → [12] → [13] → [14] → [16]
[17]	Sub Microcontroller CBA	[1] → [2] → [17]

*About *[9](S-14), remove only (S-14) of Rear Panel.

Note: Be sure to unplug the power cord from the power outlet before disassembling.
"Current continues to flow in the set for 10 to 20 seconds after the power cord is unplugged. Wait until the power LED turns completely off before proceeding."

3. Disassembly Method

ID/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Desolder	Note
[1]	Top Cover	D1	9(S-1), 2(S-2)	---
[2]	Top Panel	D2	10(S-3)	---
[3]	Tray Panel	D3	*2(L-1)	1
[4]	Front Assembly	D3	2(S-4), 2(S-5), (S-5a), *3(L-2), *CN2001, *CN4002	1
[5]	Front CBA	D4	7(S-6)	---
[6]	Power SW CBA	D4	2(S-7), Desolder	---
[7]	SD CBA	D4	2(S-8), SD PCB Holder	---
[8]	Front Bracket	D5	2(S-9)	---
[9]	Rear Panel	D5	2(S-10), 2(S-11), 2(S-12), (S-13), (S-14), 3(S-15), *CN1003	2
[10]	BE Main CBA Unit	D6	4(S-16), 4(S-17), 3(S-18), *CN6401, *CN7001, *CN7401, BE Scaler Holder, BE Scaler Sub Holder	2
[11]	FE Main CBA & BD Mechanism Assembly	D7	4(S-19), *CN2601	---
[12]	Fan Holder	D7	2(S-20), *CN2500	---
[13]	Fan Motor	D7	2(S-21)	---
[14]	RS232C CBA	D8	3(S-22), *CN2551, RS232C Holder	---
[15]	Power Supply CBA	D8	2(S-23), 2(S-24), 2(S-25), *CN2501, Power PCB Holder	---
[16]	AV CBA	D8	7(S-26), *CN2503	---
[17]	Sub Microcontroller CBA	D9	4(S-27)	---
[18]	Pedestal	D9	3(S-28)	---
		↓	↓	↓
		(3)	(4)	(5)

(1) (2)

Note:

(1) Identification (location) No. of parts in the figures

(2) Name of the part

(3) Figure Number for reference

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5) Refer to “Reference Notes.”

About tightening screws

When tightening screws, tighten them with the following torque.

Torque
0.45 ± 0.05 N·m

Reference Notes

1. **CAUTION 1:** Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.
   1) Release three Locking Tabs (L-2).
   2) Disconnect connectors CN2001, CN4002, then remove the Front Assembly.
2. **CAUTION 2:** When installing the BE Main CBA Unit with a screw, hold and press the BE Main CBA Unit to align the HDMI connector with the connector’s hole for HDMI on the Rear Panel.

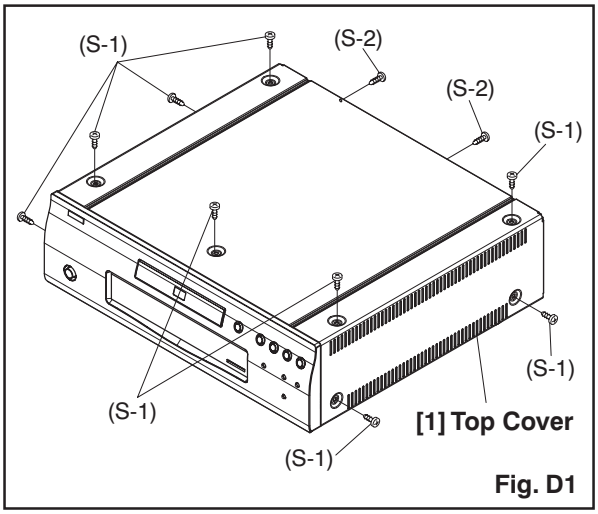


Fig. D1

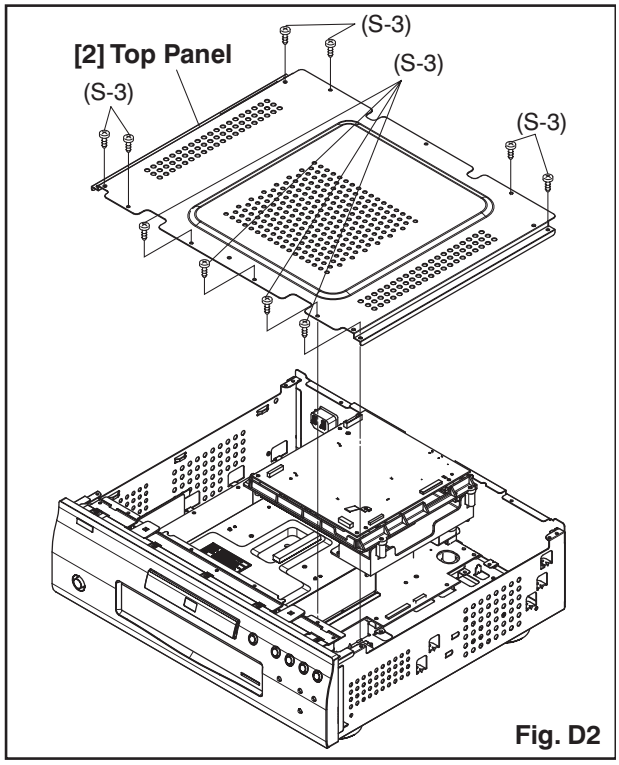


Fig. D2

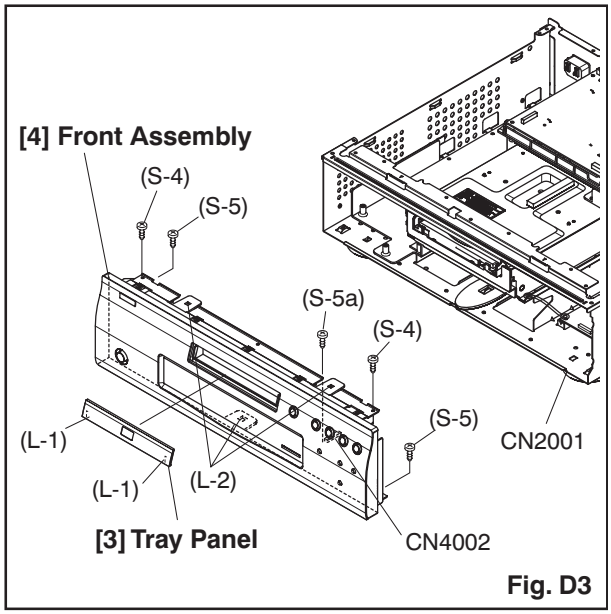


Fig. D3

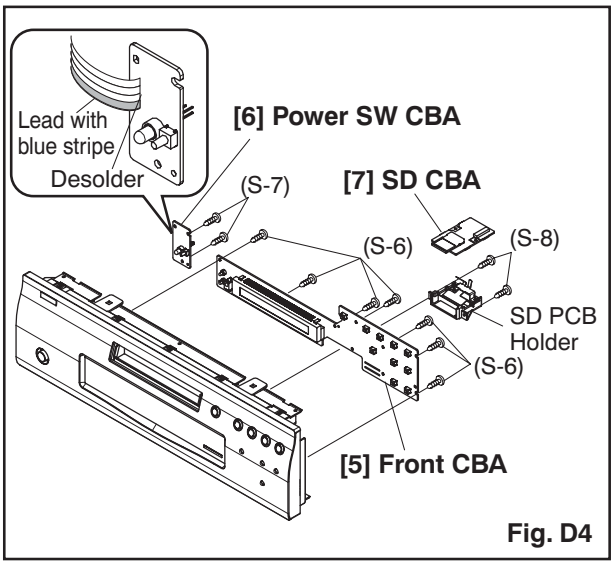


Fig. D4

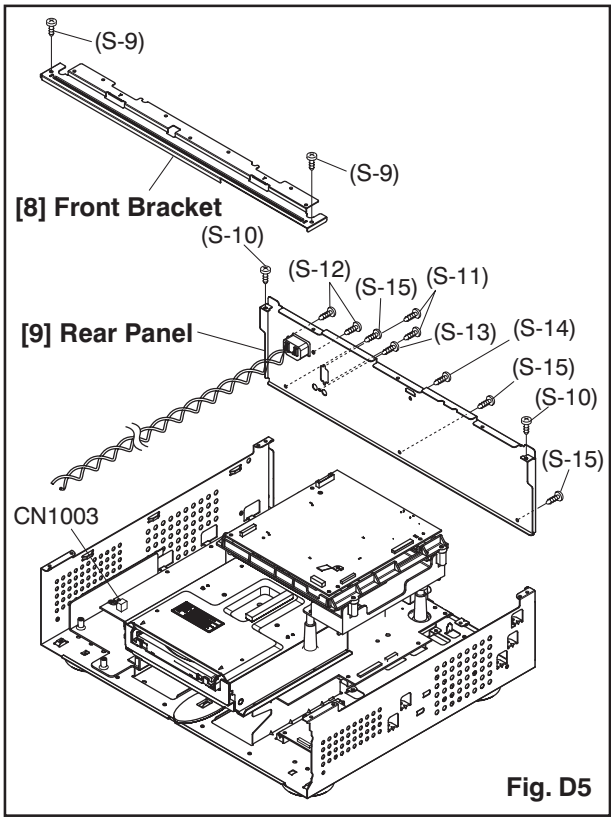


Fig. D5

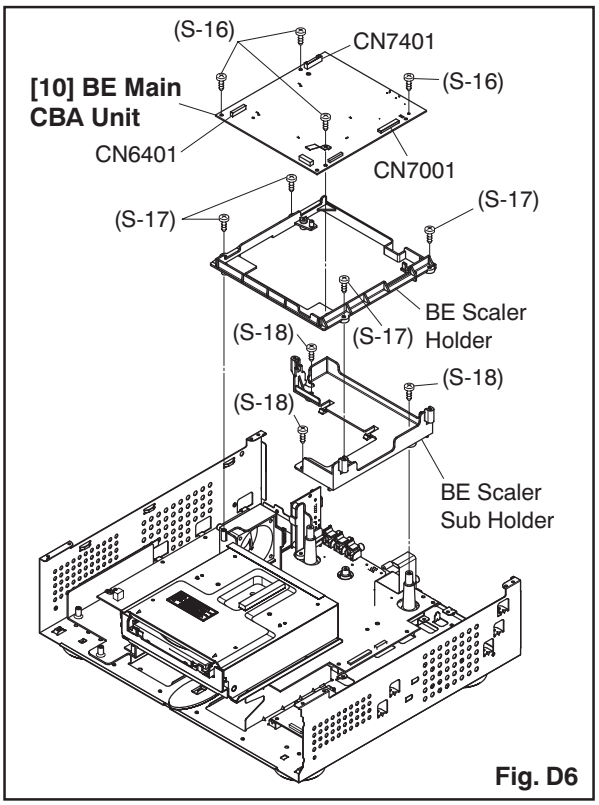


Fig. D6

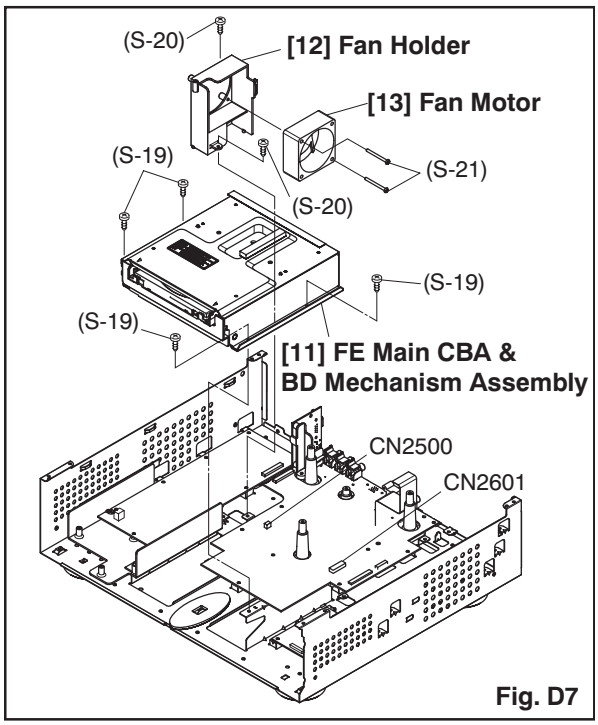


Fig. D7

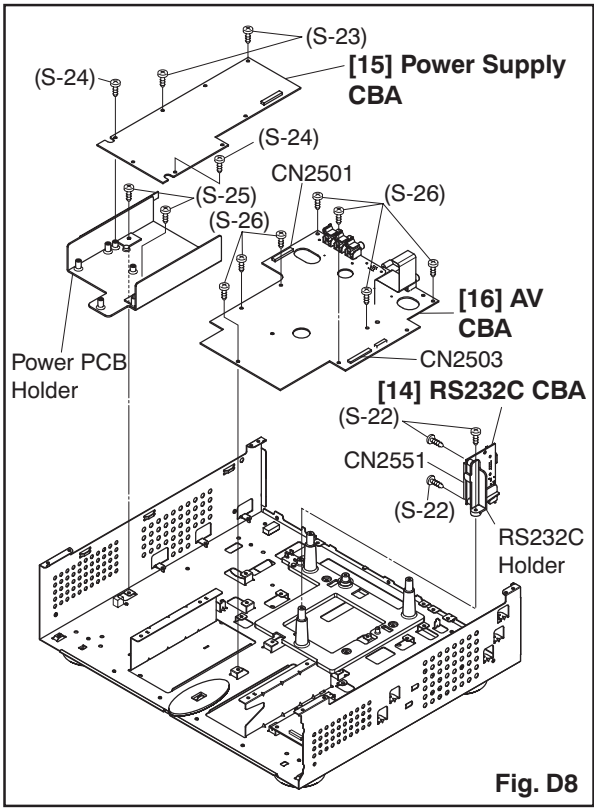


Fig. D8

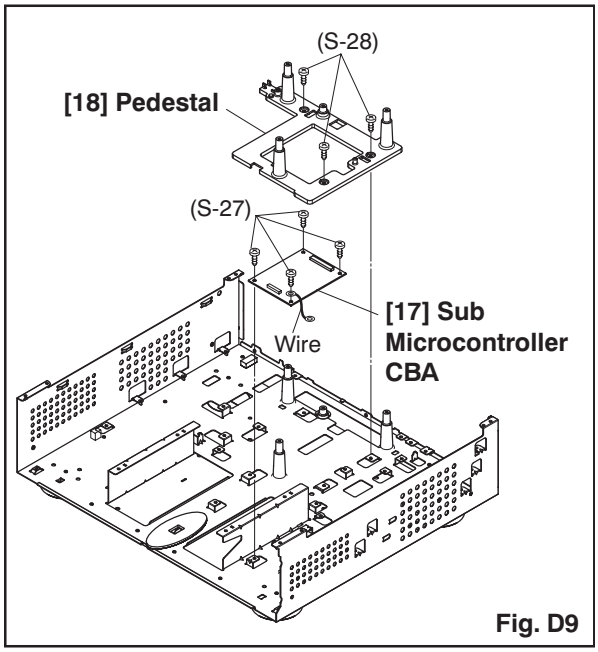
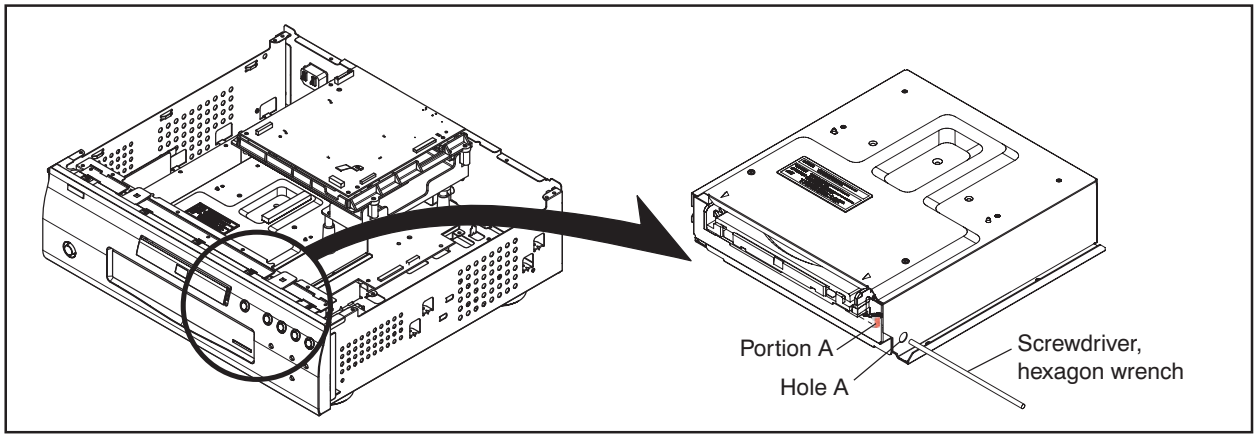


Fig. D9

4. How to Eject Manually

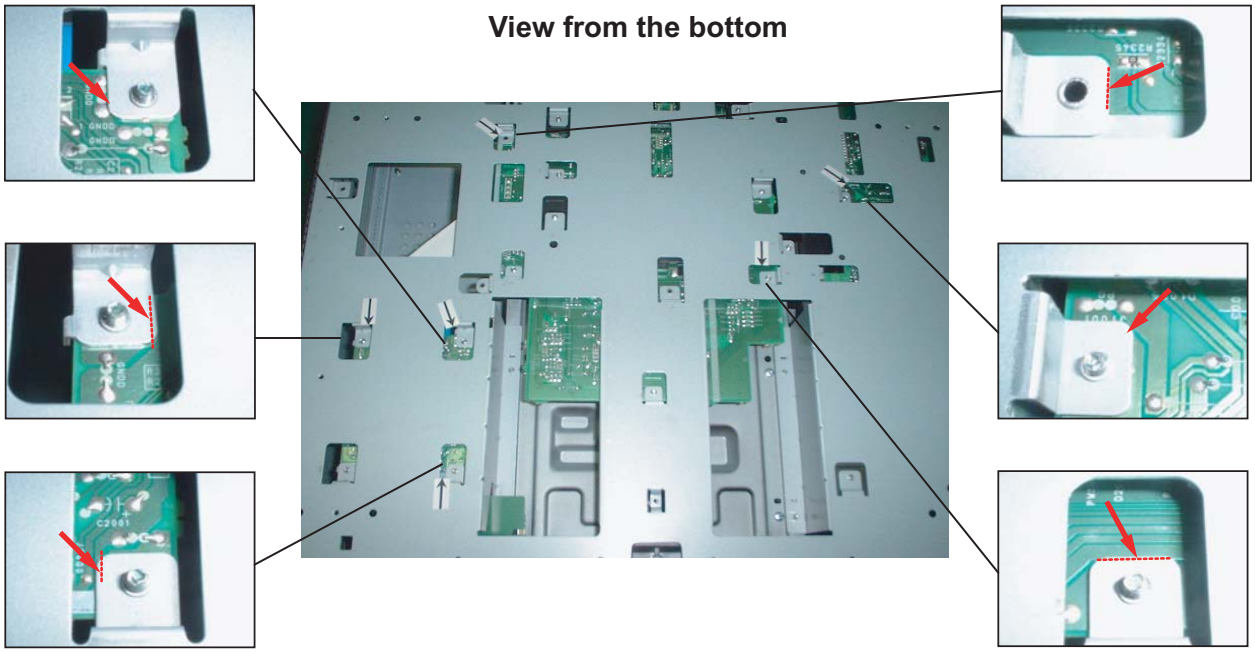
1. Remove the Top Cover and the Top Panel.
2. Insert a screwdriver, etc. into the Hole A straightly so that the Portion A is pushed.
3. Pull the tray out manually and remove a disc.



Cautions concerning the structure

The chassis touches the patterns on the circuit board at 6 points, but these patterns are all ground patterns, so performance is not affected.

View from the bottom



HOW TO INITIALIZE THE BLU-RAY DISC PLAYER

To put the program back at the factory-default, initialize the BD player as the following procedure.

1. Turn the power on by pressing the [POWER] button and the tray will close.
2. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. a appears on the screen.

"*******" differ depending on the models.

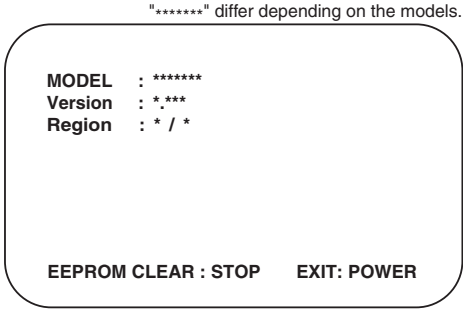


Fig. a

3. Press [STOP] button on the remote control unit.
   Fig. b appears on the screen and Fig. c appears on the VFD.

"*******" differ depending on the models.

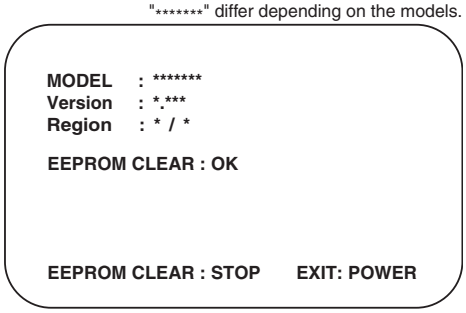


Fig. b

Fig. c

4. To exit this mode, press [POWER OFF] button.

FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. To put the BD player into version up mode, press [9], [8], [7], [6], and [MENU/POP MENU] buttons on the remote control unit in that order. The tray will open automatically.
   Fig. a appears on the screen and Fig. b appears on the VFD.

"*******" differs depending on the models.

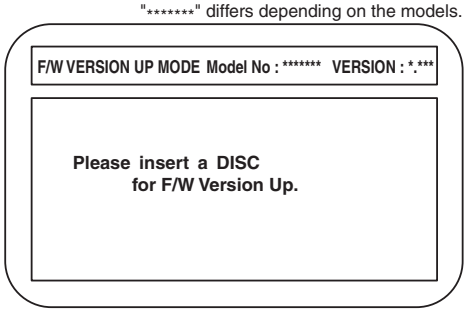


Fig. a Version Up Mode Screen

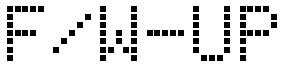


Fig. b VFD in Version Up Mode

The BD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

3. Load the disc for version up.
4. The BD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD. If you enter the F/W for different models, “Disc Error” will appear on the screen, then the tray will open automatically.

"*******" differs depending on the models.

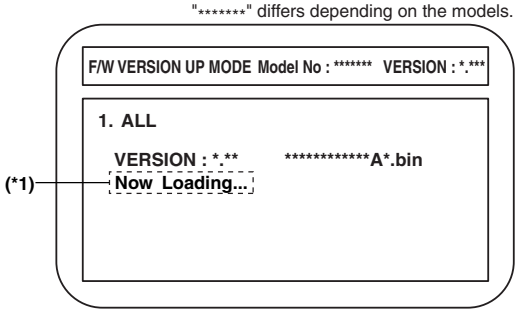


Fig. c Programming Mode Screen (Example)

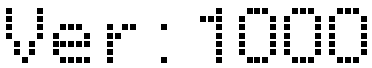


Fig. d VFD in Programming Mode (Example)

The appearance shown in (*1) of Fig. c is described as follows:

No.	Appearance	State
1	Now Loading...	Loading the disc
2	Reading...	Sending files into the memory. After reading, automatically the tray opens.
3	Remove the disc	Reading has finished. Remove the disc and close the tray.
4	See FL display	Writing new version data, the progress will be displayed as shown in Fig. e.

Fig. e VFD in Version Up Mode

5. After programming is finished, the checksum on the VFD (Fig. f).

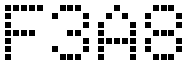


Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no button is available.

6. Unplug the AC cord from the AC outlet. Then plug it again.
7. Turn the power on by pressing the [POWER ON] button and the tray will close.
8. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. g appears on the screen.

"*******" differ depending on the models.

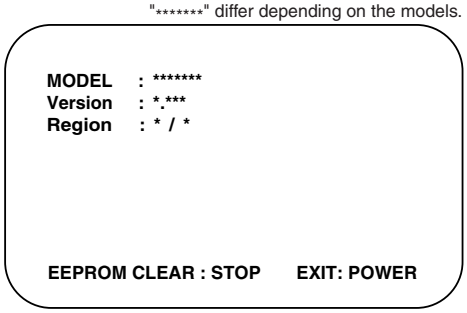


Fig. g

9. Press [STOP] button on the remote control unit. Fig. h appears on the screen and Fig. i appears on the VFD.

"*******" differ depending on the models.

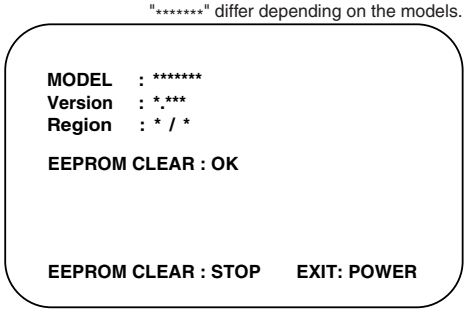


Fig. h

Fig. i

10. To exit this mode, press [POWER OFF] button.

SERVICE MODE

Service Mode

1st level		2nd level		3rd level		Description
1	Mecha test	1	Tray Aging			Aging of tray open/close
		2	TOC Read			TOC reading
		3	Heat Run			Tray close -> TT1 playback -> TT10 playback -> Tray open -> Tray close
2	VFD/LED Test	1	All On			Turning on all VFD
		2	All Off			Turning off all VFD
3	Error Rate					Displaying Error rate, Jitter during playback
4	LD Test	1	LD Power	1	Off	Turning off LD
				2	BD	Turning on BD LD
				3	DVD	Turning on DVD LD
				4	CD	Turning on CD LD
		2	Operating Time			Displaying LD Operation Time (with clear function)
5	Channel Level	1	TEST TONE	1	Center/ Subwoofer/Front LR	
				2	Surround LR/ Surround Back LR	
		2	Front Lch			
		3	Center			
		4	Front Rch			
		5	Surround Rch			
		6	Surround Back Rch			
		7	Surround Back Lch			
		8	Surround Lch			
		9	Sub woofer			
6	RS-232C	1	Parity Setting	1	Even	Setting even parity
				2	Non	Setting non parity
		2	Version Up Mode			Realta Version up with connecting RS-232C
7	SD Card Test					
8	Default Setting					Default setting

Note: If some test are performed continuously, any error will occur.

Entering Service Mode

In power on condition, no discs and tray close, it will be entered into service mode by the following operation using the remote controller. However, it will not be entered when Media Select Item is SD Memory.

Service Mode by using remote controller

Press the following buttons on the remote controller in power on condition, no discs and tray close;

[2]->[5]->[8]->[0]->[CLEAR]

Release from Service Mode

Press the [POWER OFF] button to turn off power.

Screen saver/Auto Power Off in Service Mode

These functions are not performed in Service Mode.

After entering, Fig. j appears on the screen and Fig. k appears on the VFD.

* Firmware Version differs depending on the models, and this indication is one example.

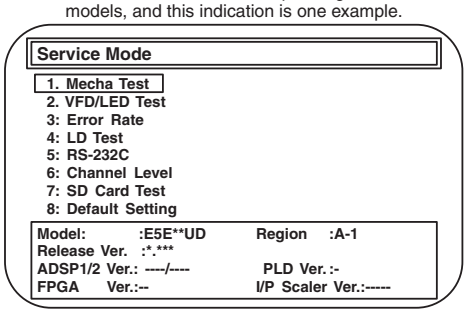


Fig. j Service Mode (Main menu)

Fig. k Service Mode

Available button in service mode

Button	condition
ENTER	Enter the next level
POWER	Turn the power off (when the service mode is completed)
1~8	Enter the selected item (next level)
OTHER	Not available

Note:Press the number key to select items. Or, press the cursor button (up/down) to select items and press [ENTER] button.

INDICATION	DESCRIPTION	REMARK
Model Name	Model Name	E5E***D, etc.
Region	BD region - DVD region	A-1, etc.
Rel. Ver.	Release version	

TRAY LOCK MODE

Tray Lock Mode prevents the tray opening or closing to prevent disc theft in demo mode.

Enter this mode using the following procedure.

1. Confirm that the TV Monitor is connected.
2. With playback stopped, press [SETUP], [TOP MENU], [3], [AUDIO], [0] and [SETUP] buttons on the remote control unit in that order. "Trade On" will appear in the upper right corner on the screen, and on VFD for 2 seconds.

Fig.a VFD

3. To exit this mode, press [SETUP], [TOP MENU], [3], [AUDIO], [0] and [SETUP] buttons on the remote control unit in that order. "Trade Off" will appear in the upper right corner on the screen, and on VFD for 2 seconds.

Fig.b VFD

REMOTE LOCK MODE

SETTING MENU:

Remote Lock Off Mode:

This mode receives an input signal from the remote control unit or from the Remote In-Jack on the rear panel.

Remote Lock On Mode:

This mode dose not receive an input signal from the remote control unit or from the Remote In-Jack on the rear panel.

Perform the setting using the following procedure.

1. Press [ON/STANDBY] and [STOP] buttons on the front panel simultaneously for over 3 seconds to set "Remote Lock Mode" and display mode.
2. Press [STILL/PAUSE] button on the remote control unit to set to "On" or "Off". When "Remote Lock On", "Remote Lock On" will appear in the upper right corner on the screen and appears on the VFD.

Fig.a VFD

When "Remote Lock Off", "Remote Lock Off" will appear in the upper right corner on the screen and appears on the VFD.

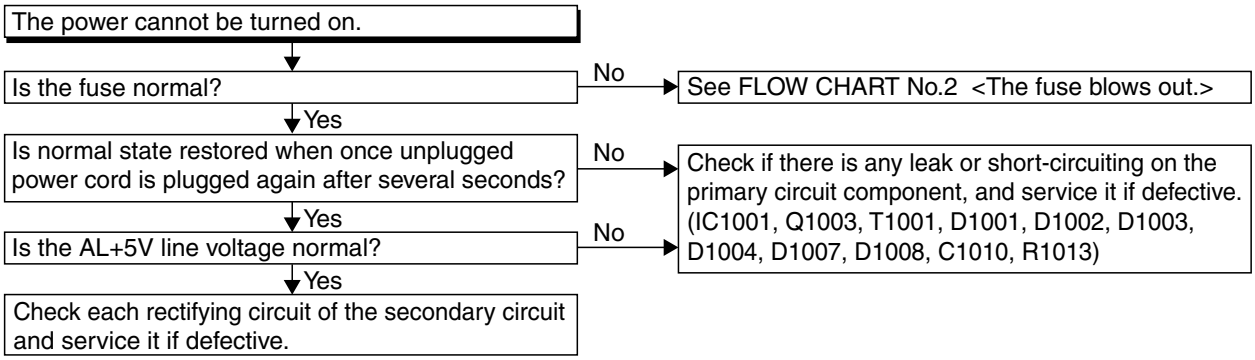
Fig.b VFD

a. If [STILL/PAUSE] button is not pressed for 5 seconds or any other button is pressed within 5 seconds, the unit will be released from "Remote Lock Mode".

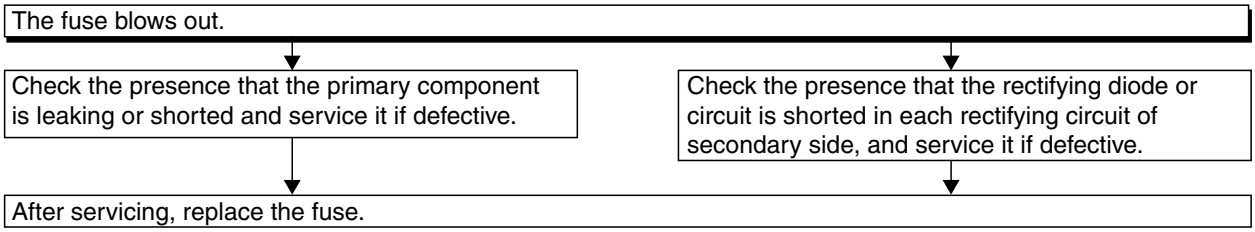
b. When initializing, set the Remote Lock Mode "off".

TROUBLESHOOTING

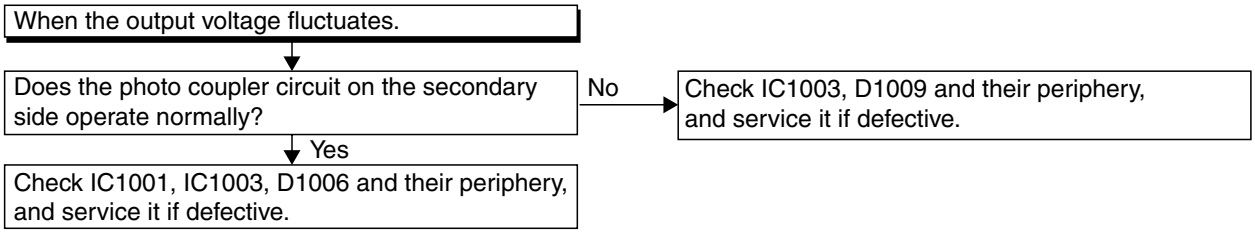
FLOW CHART NO.1


The power cannot be turned on.
Is the fuse normal?
No
See FLOW CHART No.2 <The fuse blows out.>
Yes
Is normal state restored when once unplugged power cord is plugged again after several seconds?
No
Check if there is any leak or short-circuiting on the primary circuit component, and service it if defective. (IC1001, Q1003, T1001, D1001, D1002, D1003, D1004, D1007, D1008, C1010, R1013)
Yes
Is the AL+5V line voltage normal?
No
Yes
Check each rectifying circuit of the secondary circuit and service it if defective.

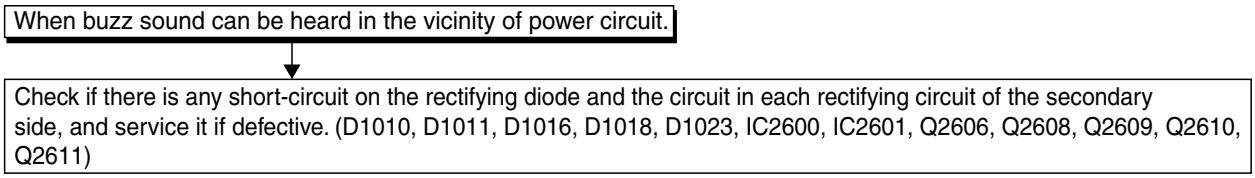
FLOW CHART NO.2


The fuse blows out.
Check the presence that the primary component is leaking or shorted and service it if defective.
Check the presence that the rectifying diode or circuit is shorted in each rectifying circuit of secondary side, and service it if defective.
After servicing, replace the fuse.

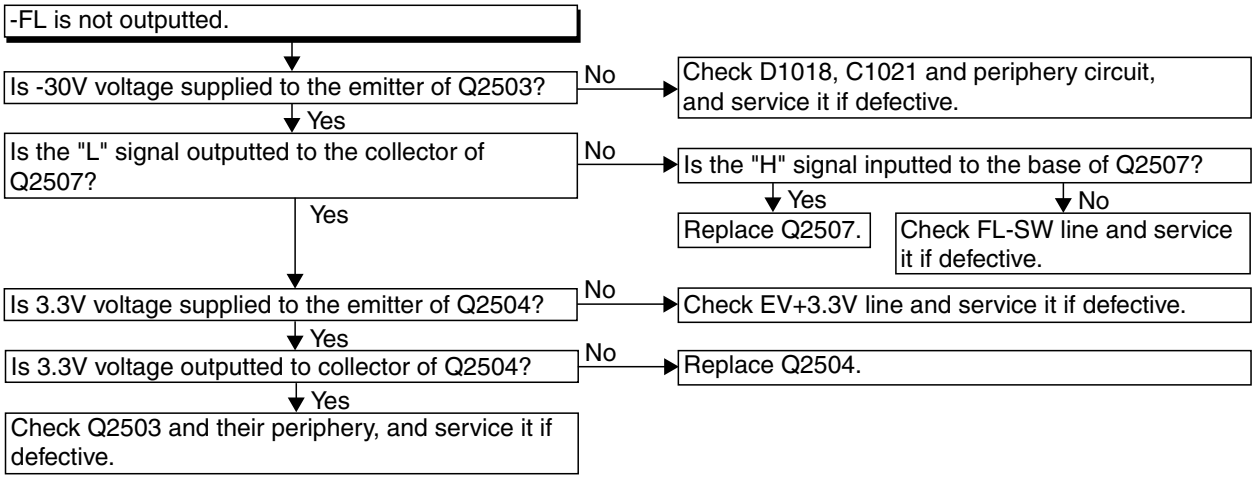
FLOW CHART NO.3


When the output voltage fluctuates.
Does the photo coupler circuit on the secondary side operate normally?
No
Check IC1003, D1009 and their periphery, and service it if defective.
Yes
Check IC1001, IC1003, D1006 and their periphery, and service it if defective.

FLOW CHART NO.4


When buzz sound can be heard in the vicinity of power circuit.
Check if there is any short-circuit on the rectifying diode and the circuit in each rectifying circuit of the secondary side, and service it if defective. (D1010, D1011, D1016, D1018, D1023, IC2600, IC2601, Q2606, Q2608, Q2609, Q2610, Q2611)

FLOW CHART NO.5


-FL is not outputted.
Is -30V voltage supplied to the emitter of Q2503?
No
Check D1018, C1021 and periphery circuit, and service it if defective.
Yes
Is the "L" signal outputted to the collector of Q2507?
No
Is the "H" signal inputted to the base of Q2507?
Yes
No
Replace Q2507.
Check FL-SW line and service it if defective.
Yes
Is 3.3V voltage supplied to the emitter of Q2504?
No
Check EV+3.3V line and service it if defective.
Yes
Is 3.3V voltage outputted to collector of Q2504?
No
Replace Q2504.
Yes
Check Q2503 and their periphery, and service it if defective.

FLOW CHART NO.6

P-ON+5V (1) is not outputted.

Is 5V voltage inputted to the emitter of Q2610?
- No → Check D1013, D1014, D1015, D1021, C1019, C1025, and their periphery, and service it if defective.
- Yes ↓

Is the voltage of base on Q2610 lower than the voltage of emitter on Q2610 when turning the power on?
- No → Check Q2607 and PWSW3 line and service it if defective.
- Yes ↓

Replace Q2610.

FLOW CHART NO.7

P-ON+5V (2) is not outputted.

Is 5V voltage inputted to the emitter of Q2606?
- No → Check D1013, D1014, D1015, D1021, C1019, C1025, and their periphery, and service it if defective.
- Yes ↓

Is the voltage of base on Q2606 lower than the voltage of emitter on Q2606 when turning the power on?
- No → Check Q2607 and PWSW3 line and service it if defective.
- Yes ↓

Replace Q2606.

FLOW CHART NO.8

P-ON+10.5V is not outputted.

Is 13.5V voltage inputted to the collector of Q2611?
- No → Check D1020, D1023, C1018, C1024, L1003 and their periphery, and service it if defective.
- Yes ↓

Is 11V voltage inputted to the base of Q2611?
- No → Is 13.5V voltage inputted to the base of Q2605?
  - Yes → Check Q2605, D2601, and their periphery, and service it if defective.
  - No → Check Q2604, and PWSW3 line, and service it if defective.
- Yes ↓

Replace Q2611.

FLOW CHART NO.9

P-ON+1.2V is not outputted.

Is 2.5V voltage supplied to Pin(1) of IC2601?
- No → Check D1016, C1020 and their periphery circuit, and service it if defective.
- Yes ↓

Replace IC2601.

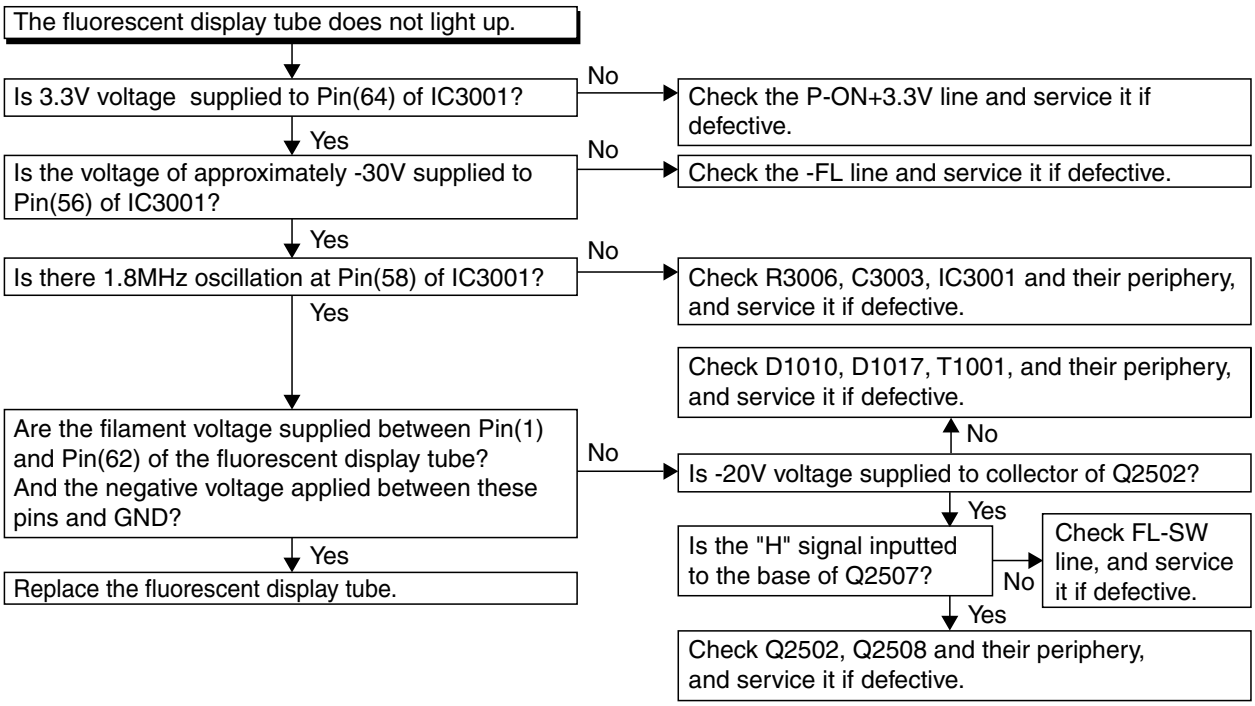
FLOW CHART NO.10

P-ON+3.3V is not outputted.

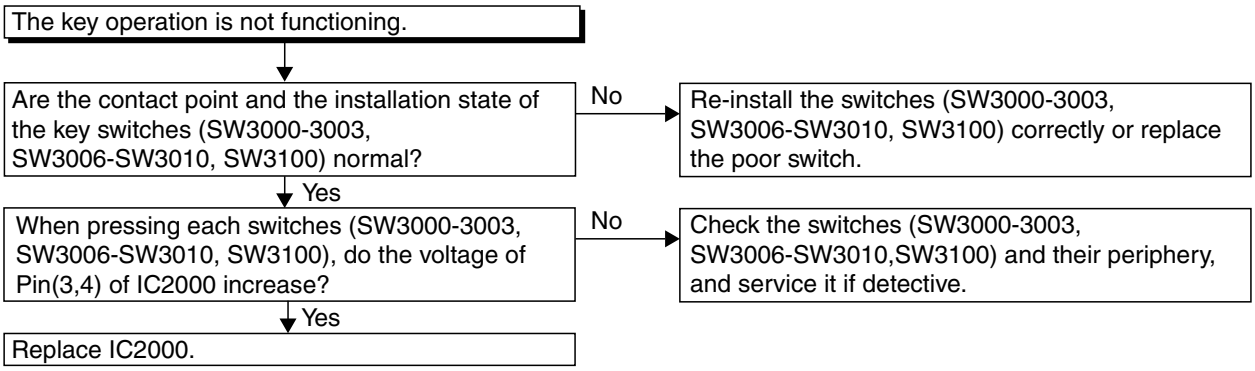
Is 5V voltage supplied to Pin(1) of IC2600?
- No → Check D1013, D1014, D1015, D1021, C1019, C1025 and their periphery circuit, and service it if defective.
- Yes ↓

Replace IC2600.

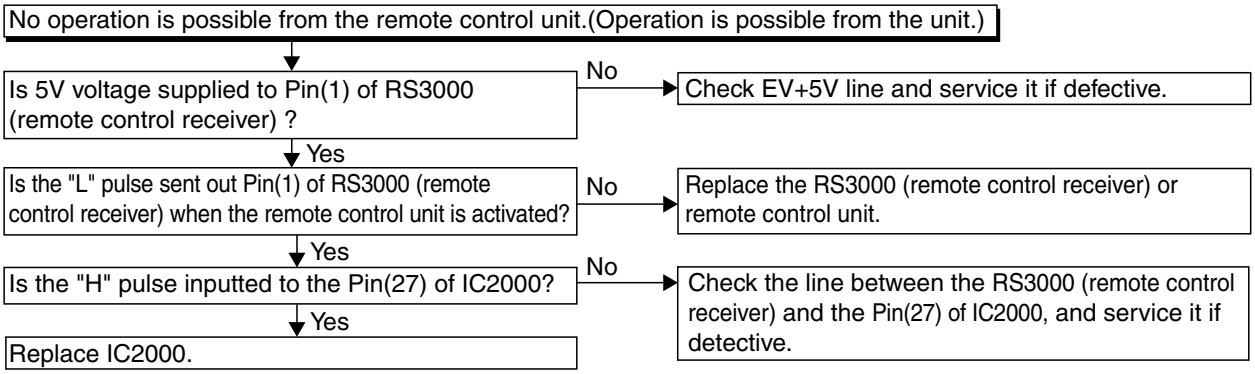
FLOW CHART NO.11


The fluorescent display tube does not light up.
Is 3.3V voltage supplied to Pin(64) of IC3001?
No
Check the P-ON+3.3V line and service it if defective.
Yes
Is the voltage of approximately -30V supplied to Pin(56) of IC3001?
No
Check the -FL line and service it if defective.
Yes
Is there 1.8MHz oscillation at Pin(58) of IC3001?
No
Check R3006, C3003, IC3001 and their periphery, and service it if defective.
Yes
Are the filament voltage supplied between Pin(1) and Pin(62) of the fluorescent display tube? And the negative voltage applied between these pins and GND?
No
Check D1010, D1017, T1001, and their periphery, and service it if defective.
No
Is -20V voltage supplied to collector of Q2502?
Yes
Is the "H" signal inputted to the base of Q2507?
No
Check FL-SW line, and service it if defective.
Yes
Check Q2502, Q2508 and their periphery, and service it if defective.
Yes
Replace the fluorescent display tube.

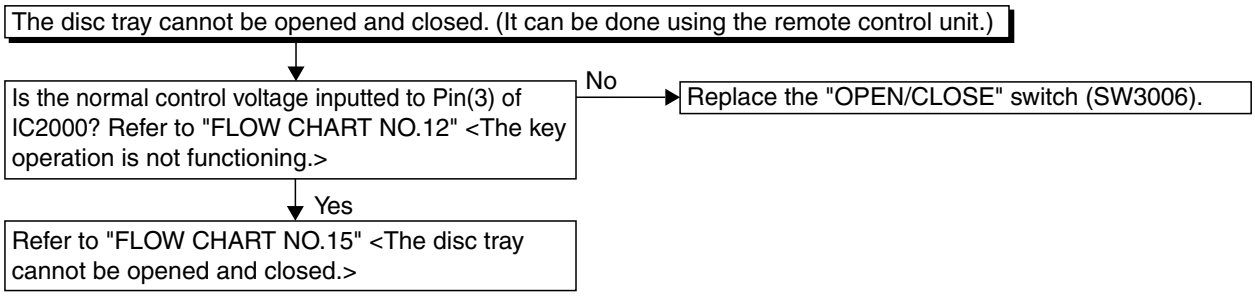
FLOW CHART NO.12


The key operation is not functioning.
Are the contact point and the installation state of the key switches (SW3000-3003, SW3006-SW3010, SW3100) normal?
No
Re-install the switches (SW3000-3003, SW3006-SW3010, SW3100) correctly or replace the poor switch.
Yes
When pressing each switches (SW3000-3003, SW3006-SW3010, SW3100), do the voltage of Pin(3,4) of IC2000 increase?
No
Check the switches (SW3000-3003, SW3006-SW3010,SW3100) and their periphery, and service it if detective.
Yes
Replace IC2000.

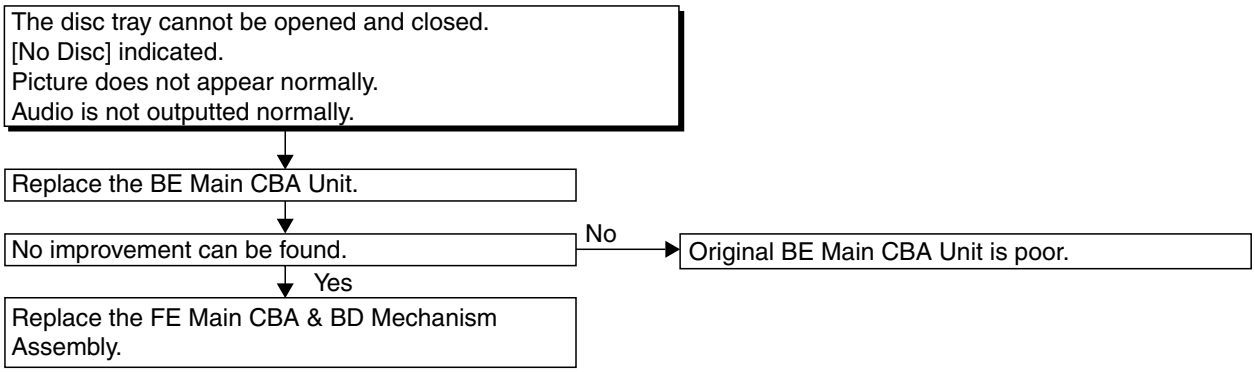
FLOW CHART NO.13


No operation is possible from the remote control unit.(Operation is possible from the unit.)
Is 5V voltage supplied to Pin(1) of RS3000 (remote control receiver) ?
No
Check EV+5V line and service it if defective.
Yes
Is the "L" pulse sent out Pin(1) of RS3000 (remote control receiver) when the remote control unit is activated?
No
Replace the RS3000 (remote control receiver) or remote control unit.
Yes
Is the "H" pulse inputted to the Pin(27) of IC2000?
No
Check the line between the RS3000 (remote control receiver) and the Pin(27) of IC2000, and service it if detective.
Yes
Replace IC2000.

FLOW CHART NO.14



FLOW CHART NO.15



BD Mechanism Replacement Guidelines

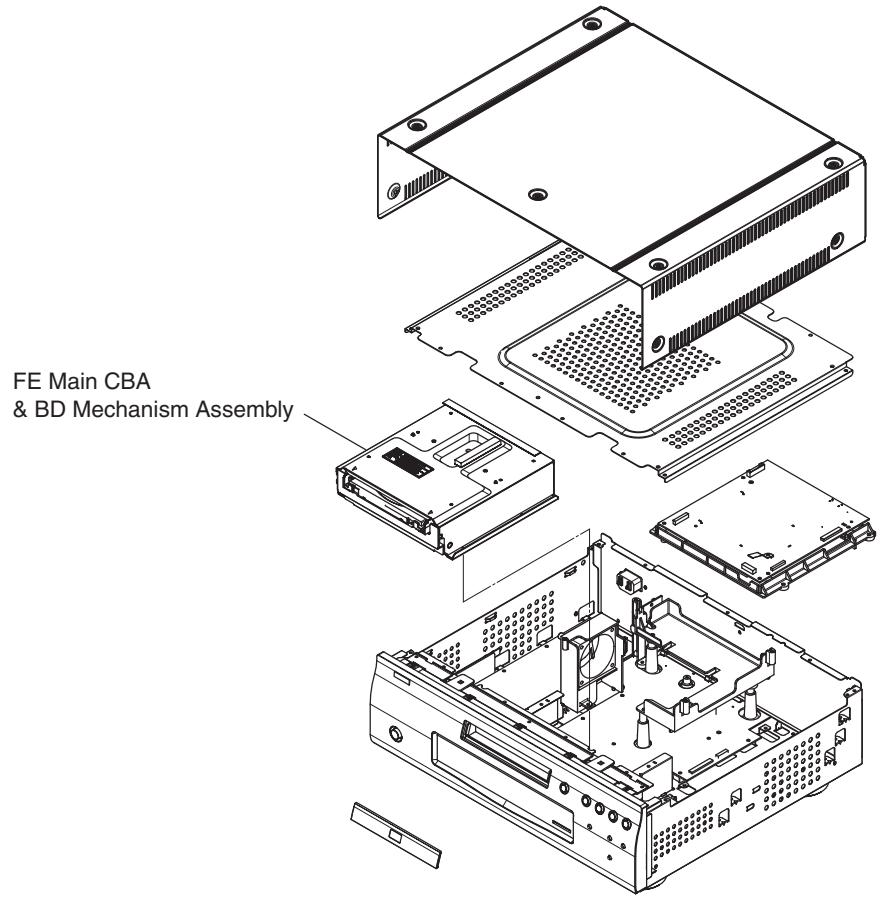
The guidelines describe how to determine whether a BD Mechanism Assembly is defective or not.
Confirm that the malfunction is eliminated after replacing the defective BD Mechanism Assembly with a new one.

*The BD Mechanism Assembly shall be acceptable when the following test disc can be played successfully;

BD-ROM	BLX-201S3(SONY) chp12
BD-R	SBD-8284(ALMEDIO)

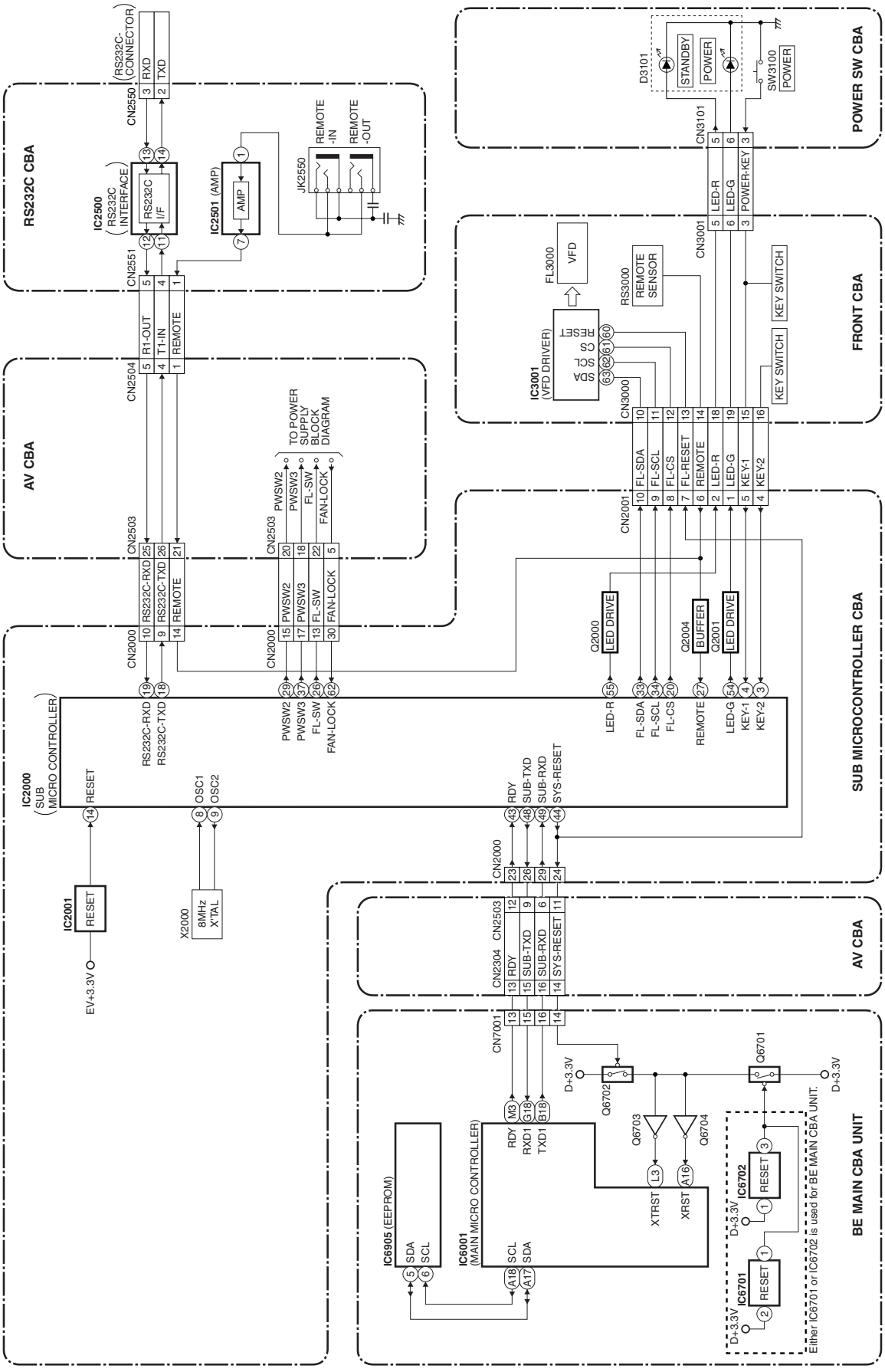
*Select [4: LD Test] and select [2: Operating Time] in Service Mode.
If the Operating Time shows 3,000 hours or more, the BD Mechanism Assembly shall be determined that it has reached the end of its life.

Replacement of FE Main CBA & BD Mechanism Assembly
1. Remove the Top Cover, Top Panel, Tray Panel and BE Main CBA Unit.
2. Disconnect Connectors and replace the FE Main CBA & BD Mechanism Assembly.
   Refer to CABINET DISASSEMBLY INSTRUCTIONS.

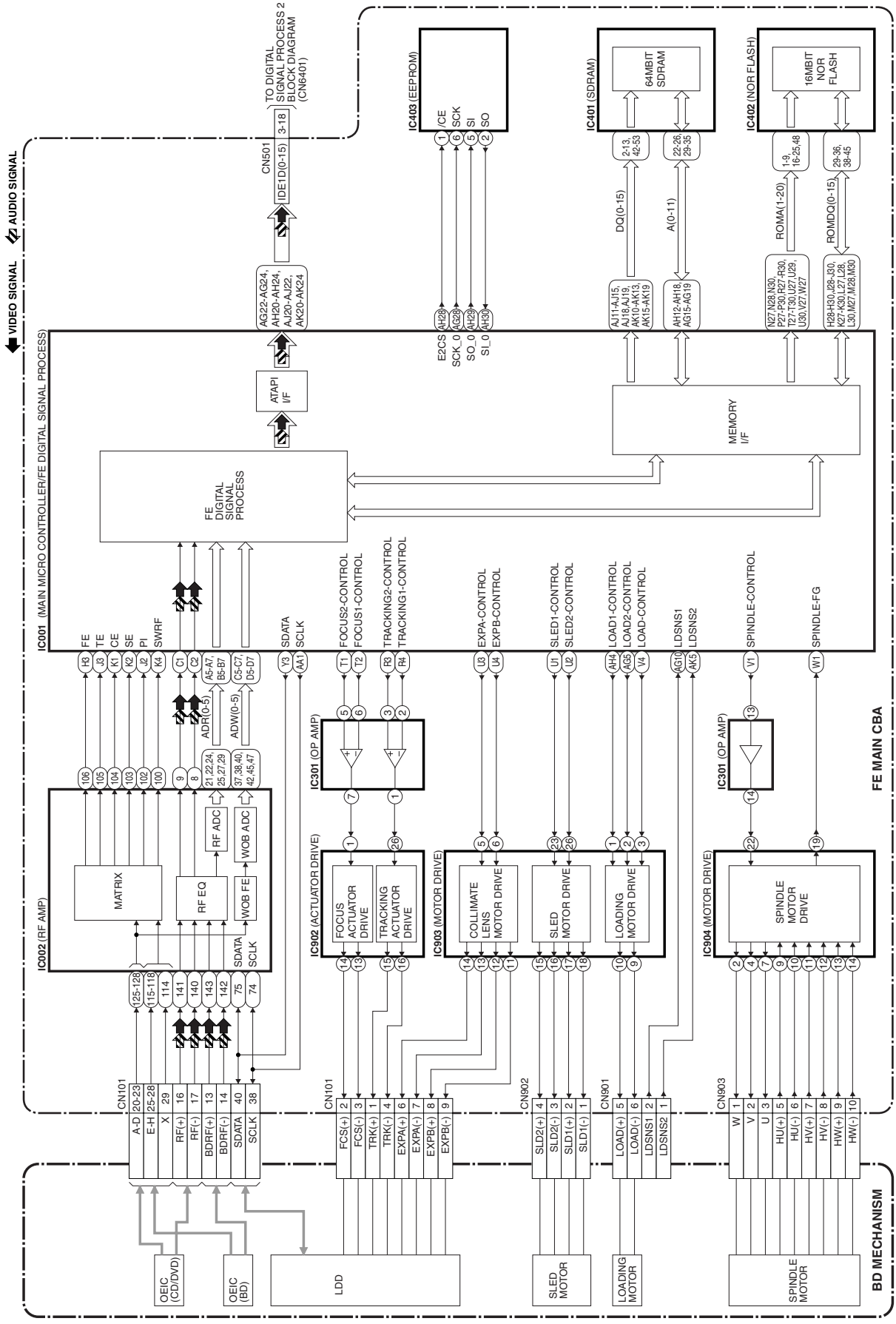


BLOCK DIAGRAMS

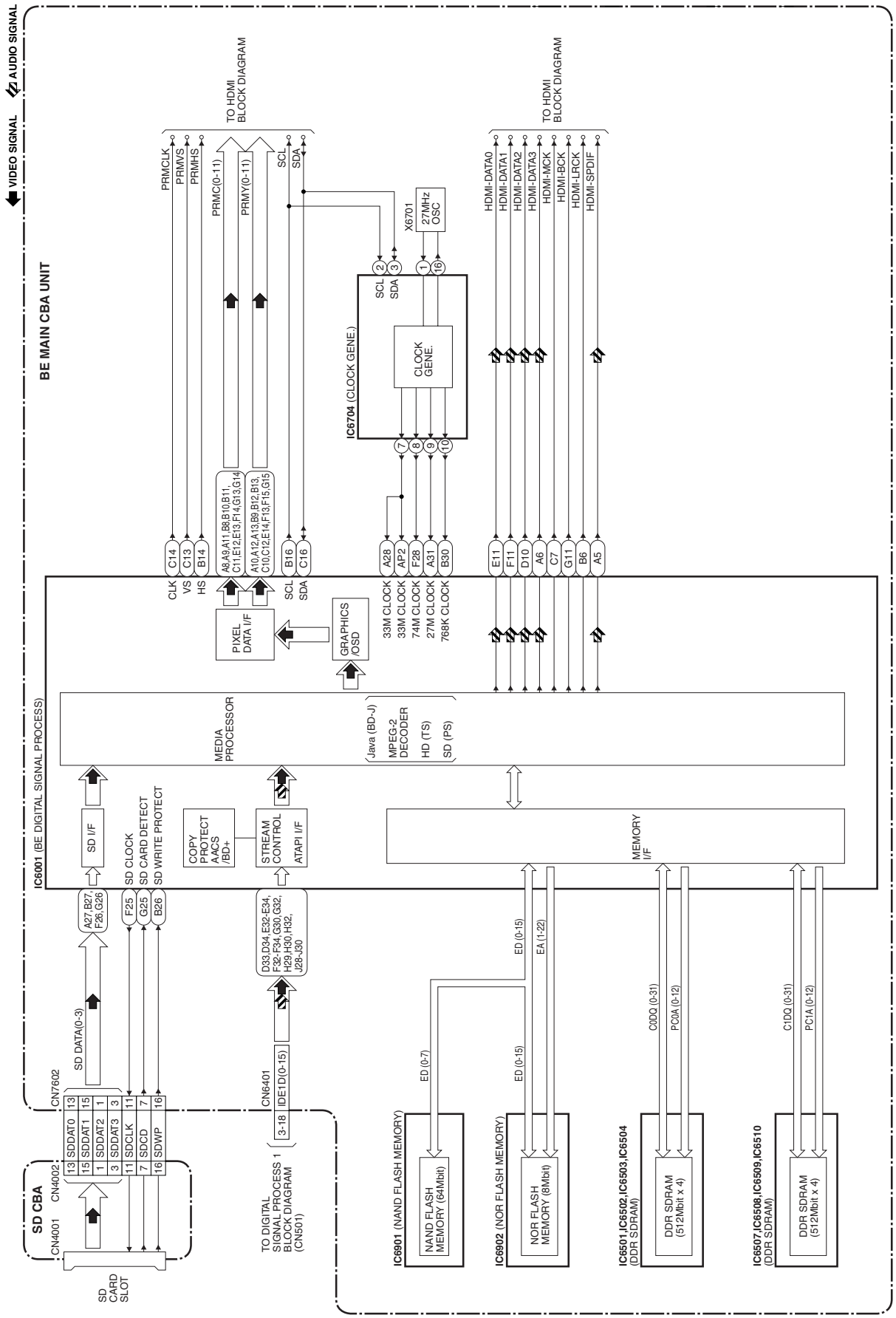
System Control Block Diagram



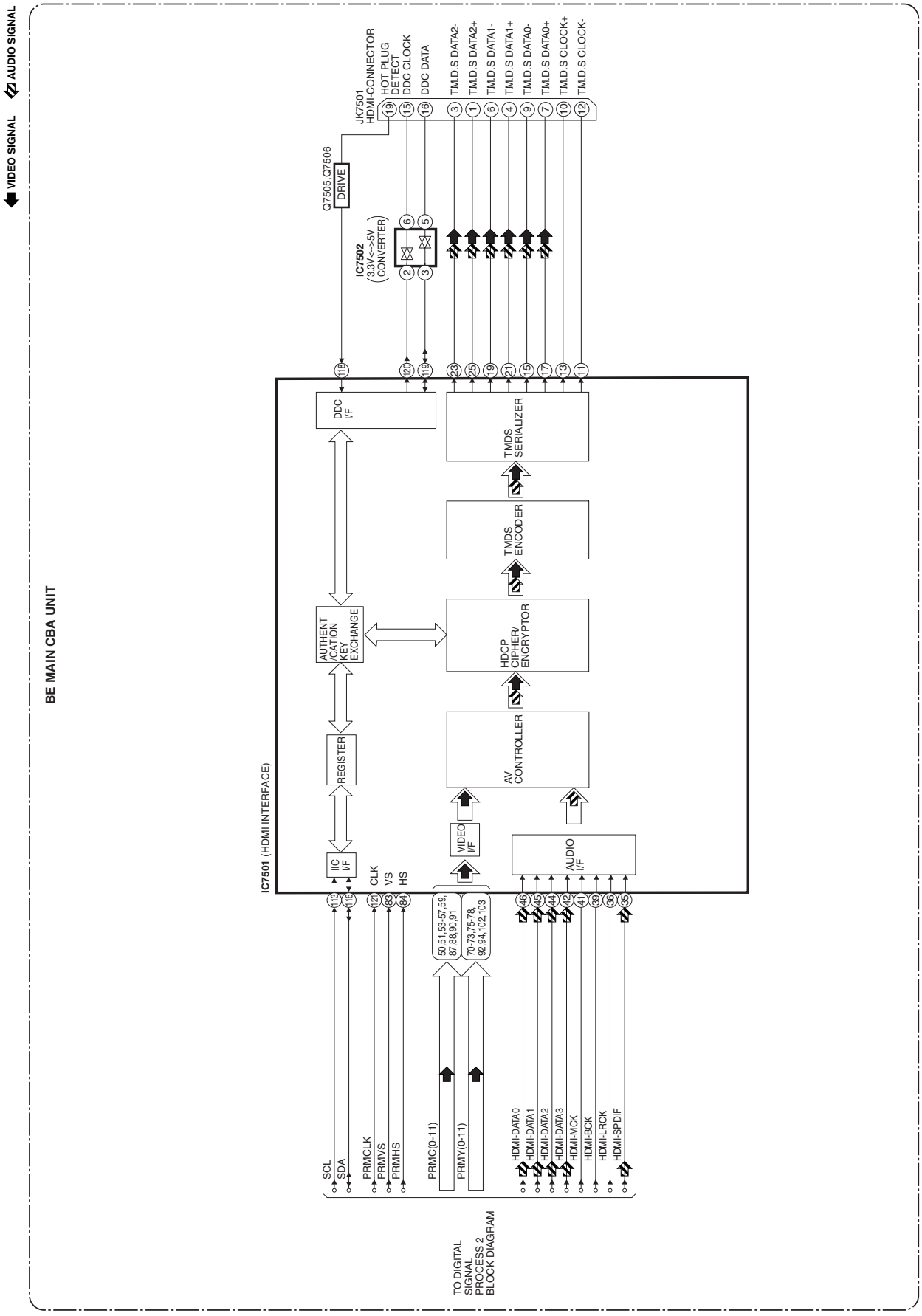
Digital Signal Process 1 Block Diagram



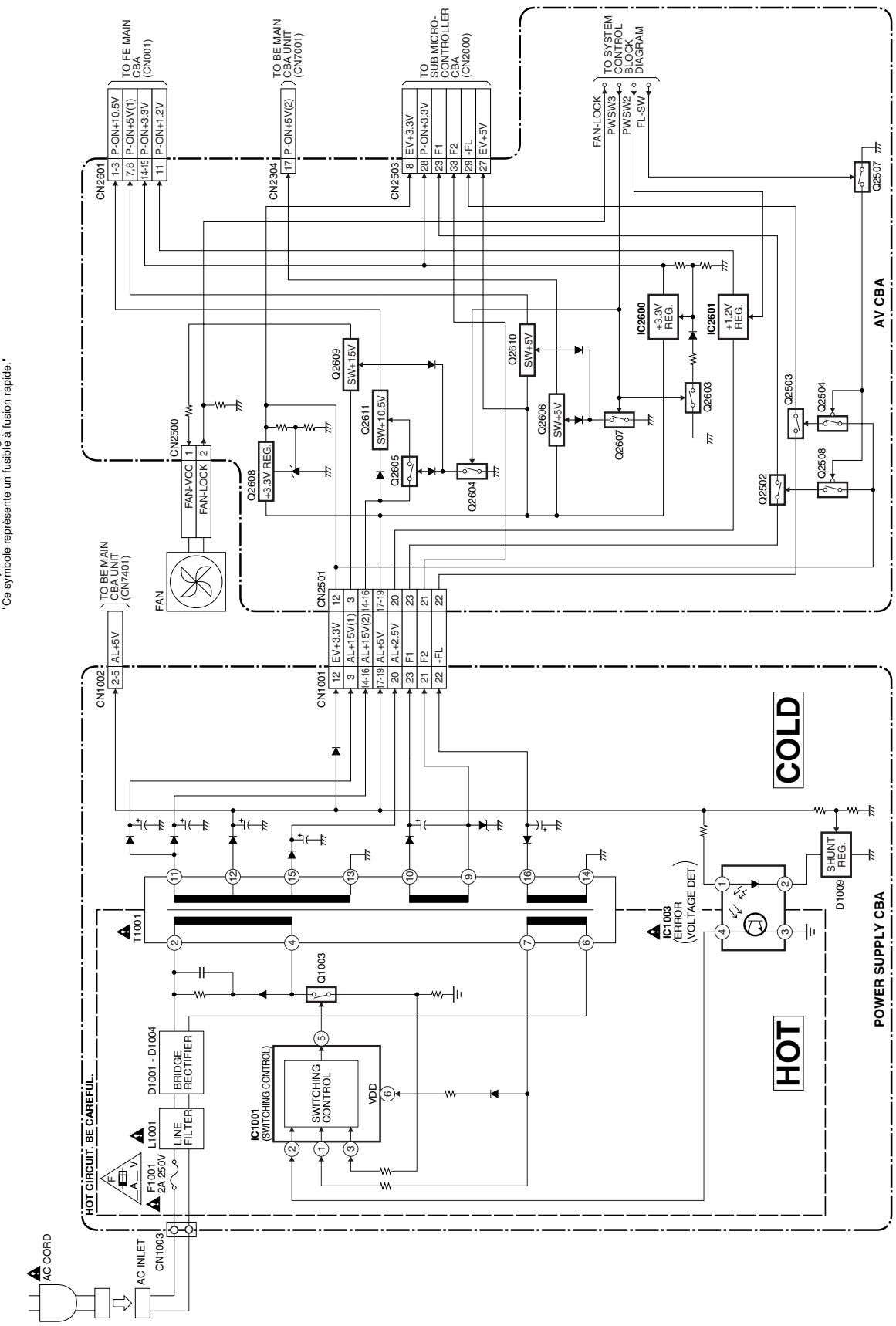
Digital Signal Process 2 Block Diagram



HDMI Block Diagram



Power Supply Block Diagram



SCHEMATIC DIAGRAMS AND TEST POINTS

Standard Notes

WARNING

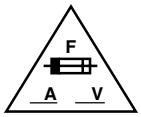
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:



FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

This symbol means fast operating fuse.
Ce symbole reprèsente un fusible à fusion rapide.

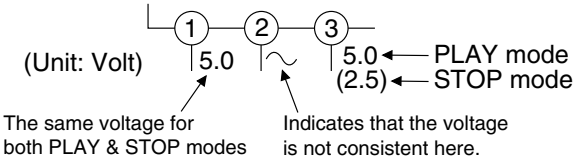
2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

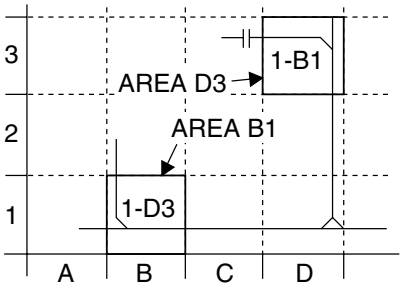
4. Voltage indications for PLAY and STOP mode on the schematics are as shown below:



5. How to read converged lines

1-D3
Distinction Area
Line Number
(1 to 3 digits)

Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

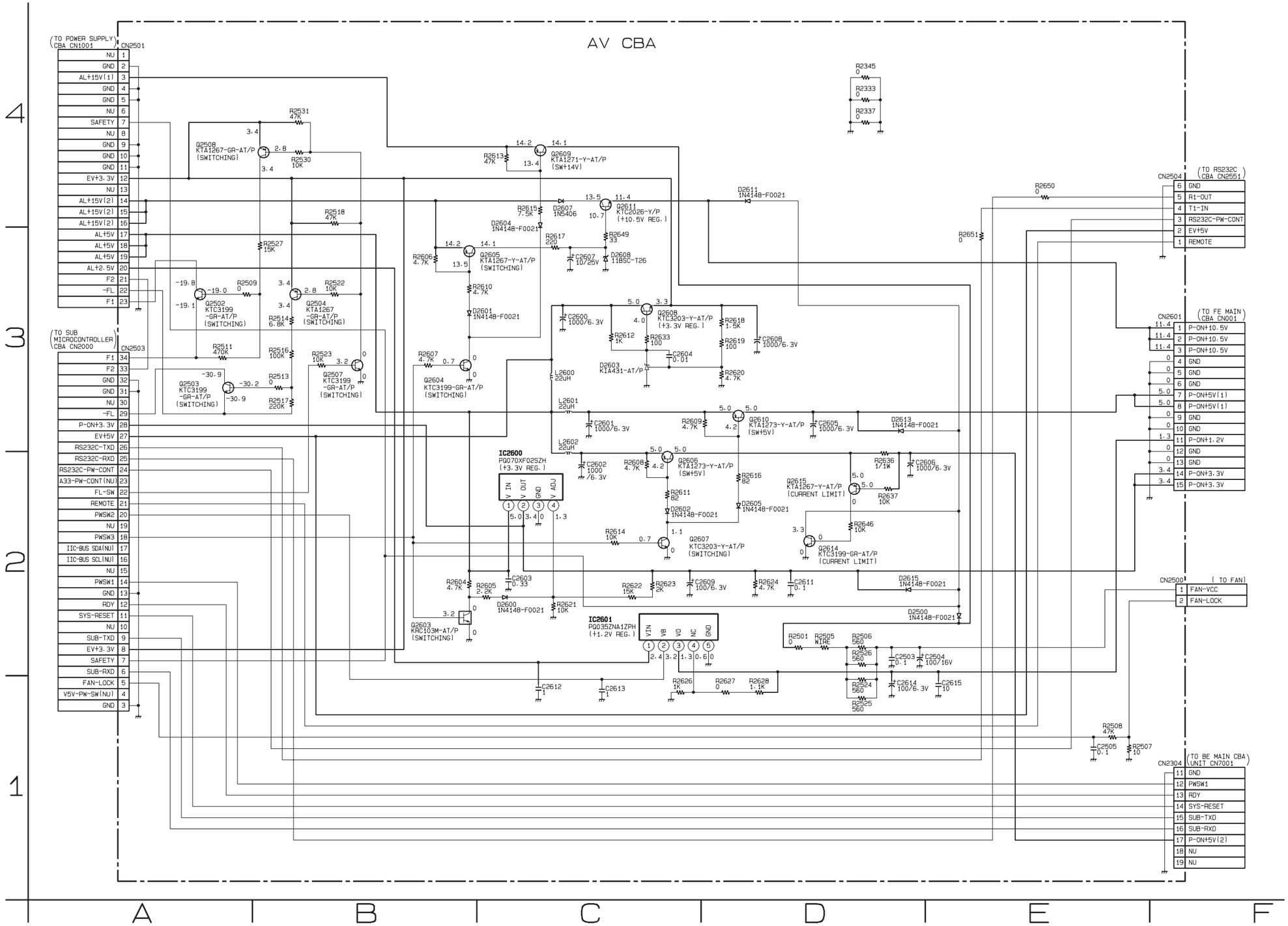
: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

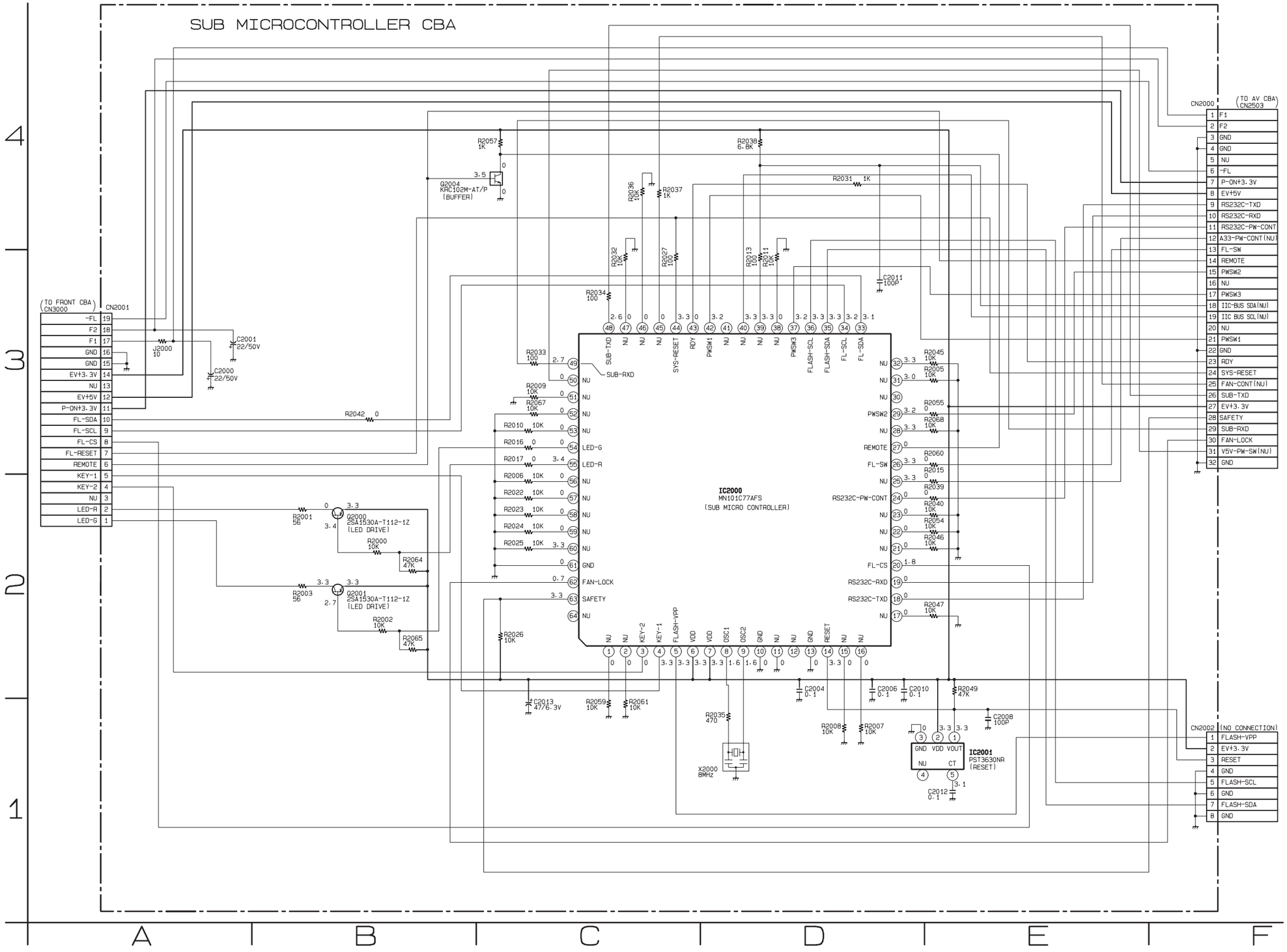
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

AV Schematic Diagram

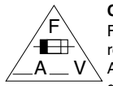


Sub Microcontroller Schematic Diagram



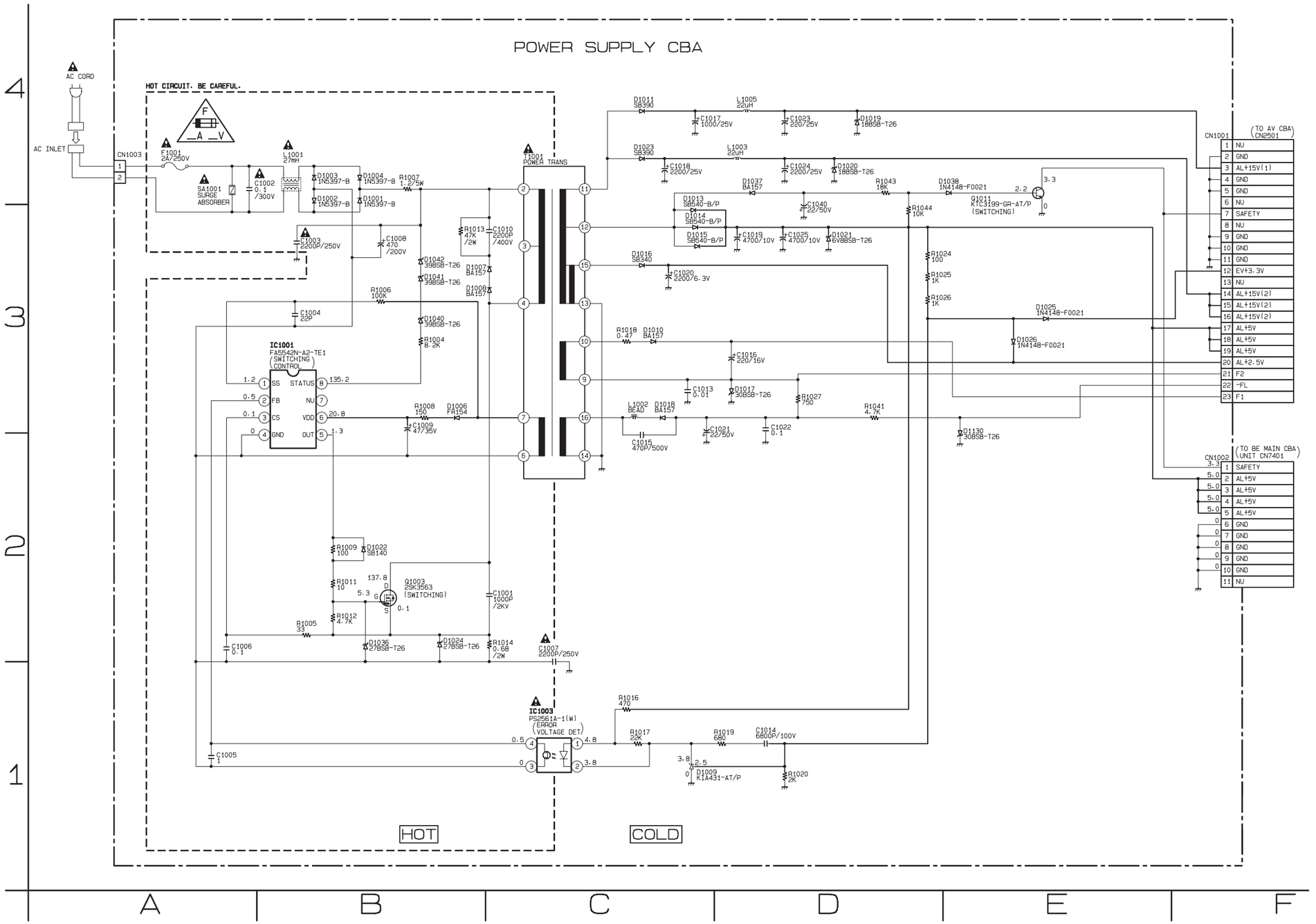
Power Supply Schematic Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

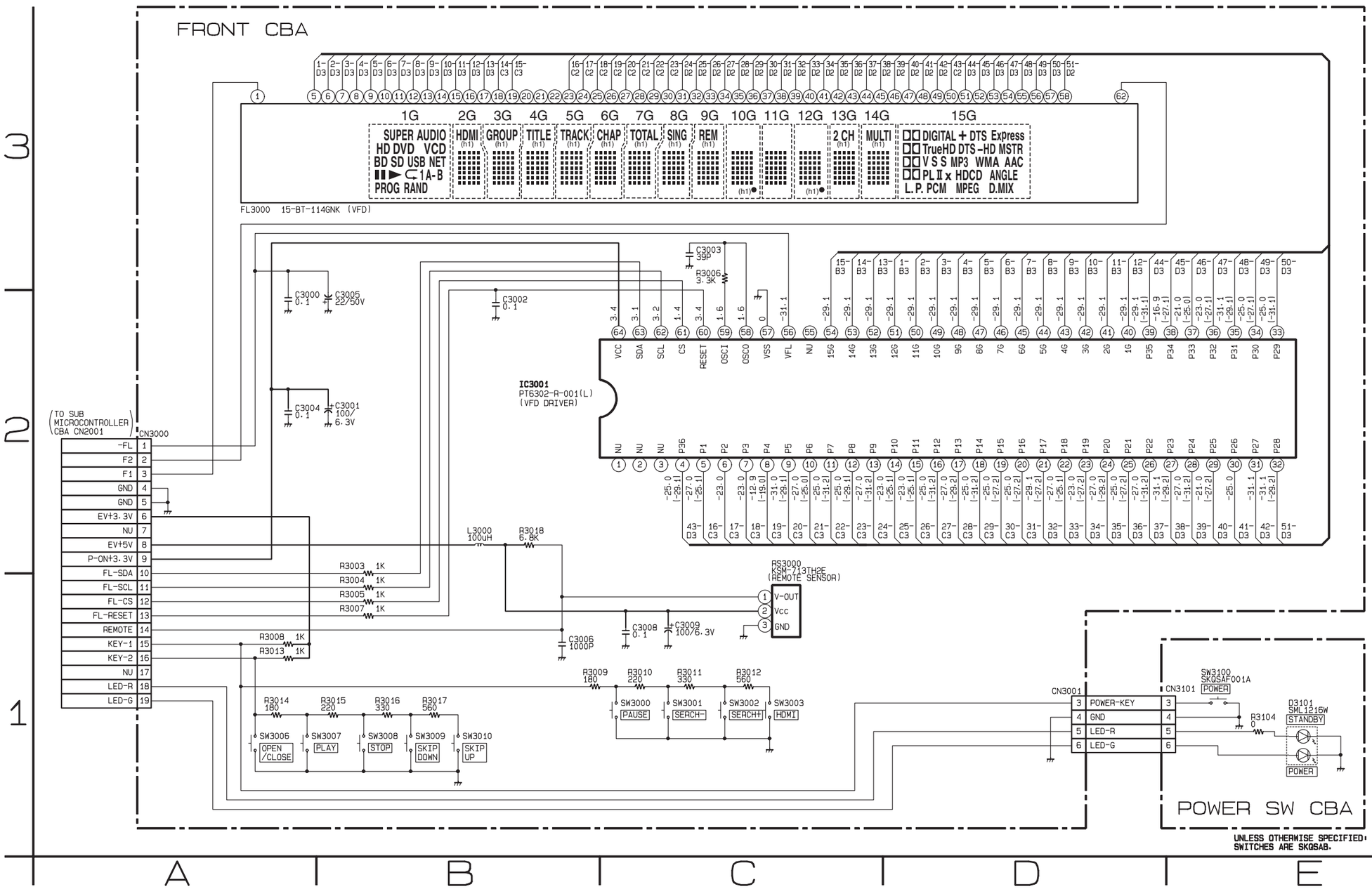


CAUTION !
For continued protection against fire hazard,
replace only with the same type fuse.
ATTENTION : Pour une protection continue les risqes
d'Incele n'utiliser que des fusible de même type.
Risk of fire-replace fuse as marked.
"This symbol means fast operating fuse."
"Ce symbole représente un fusible à fusion rapide."

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



Front & Power SW Schematic Diagram

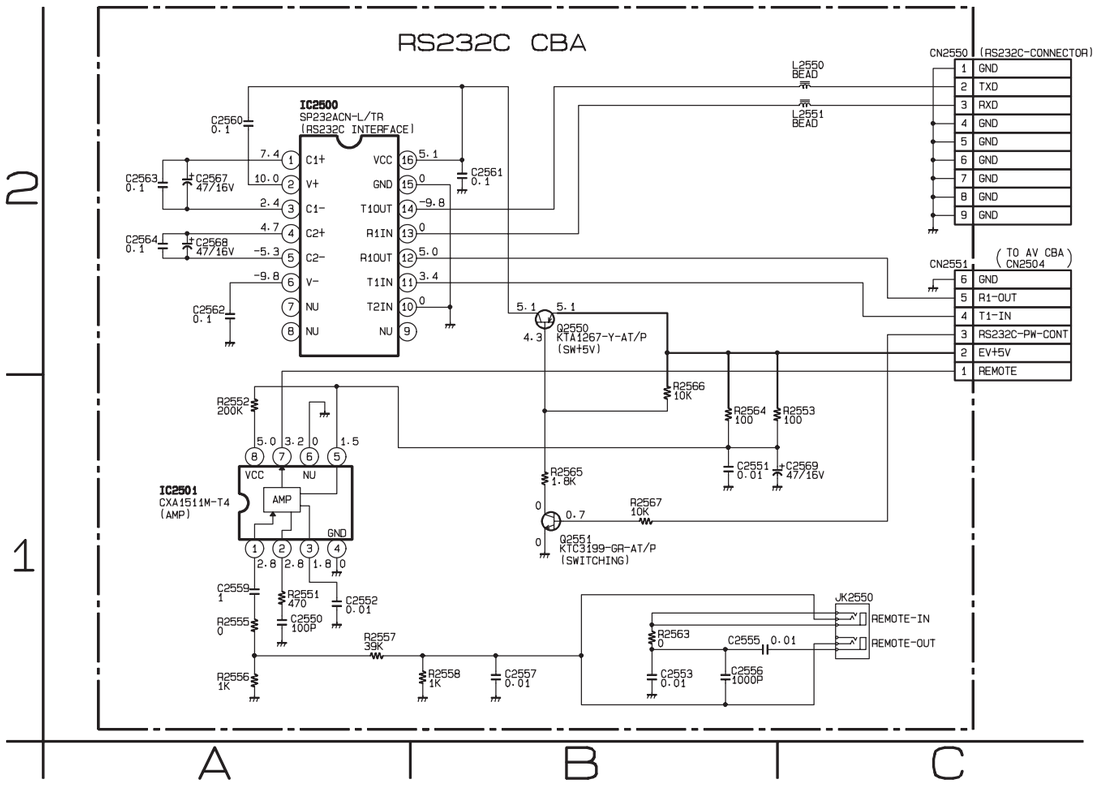


FL3000 MATRIX CHART

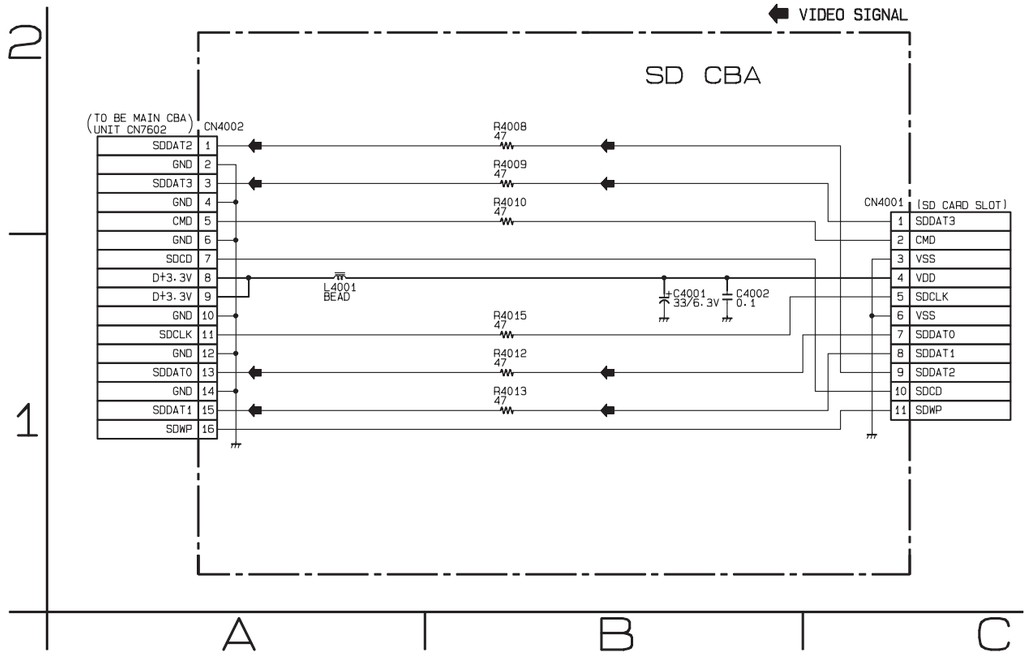
	1G	2G~14G	15G
P1	SUPER	a1	□□ DIGITAL
P2	AUDIO	a2	+
P3	HD	a3	DTS
P4	DVD	a4	Express
P5	V	a5	□□ TrueHD
P6	CD	b1	DTS
P7	BD	b2	-HD
P8	SD	b3	MSTR
P9	USB	b4	□□
P10	NET	b5	V S
P11	▮▮	c1	S
P12	▶	c2	MP3
P13	⊂	c3	WMA
P14	1	c4	AAC
P15	A-	c5	□□
P16	B	d1	PL
P17	PROG	d2	Ⅱ
P18	RAND	d3	x
P19	—	d4	HDCD
P20	—	d5	ANGLE
P21	—	e1	L.
P22	—	e2	P.
P23	—	e3	PCM
P24	—	e4	MPEG
P25	—	e5	D.MIX
P26	—	f1	—
P27	—	f2	—
P28	—	f3	—
P29	—	f4	—
P30	—	f5	—
P31	—	g1	—
P32	—	g2	—
P33	—	g3	—
P34	—	g4	—
P35	—	g5	—
P36	—	h1	—

a1 a2 a3 a4 a5
b1 b2 b3 b4 b5
c1 c2 c3 c4 c5
d1 d2 d3 d4 d5
e1 e2 e3 e4 e5
f1 f2 f3 f4 f5
g1 g2 g3 g4 g5
(2G~14G)

RS232C Schematic Diagram

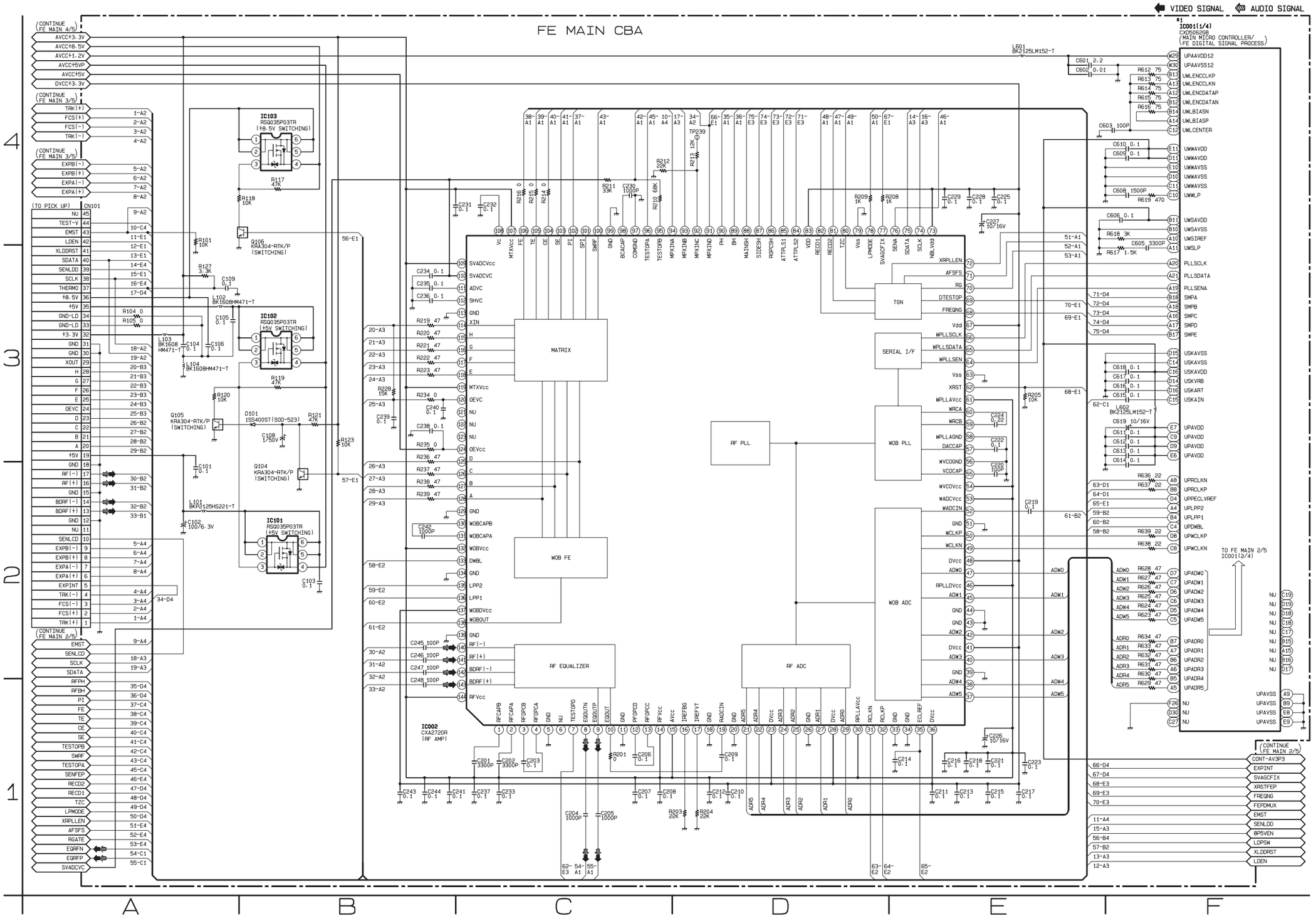


SD Schematic Diagram



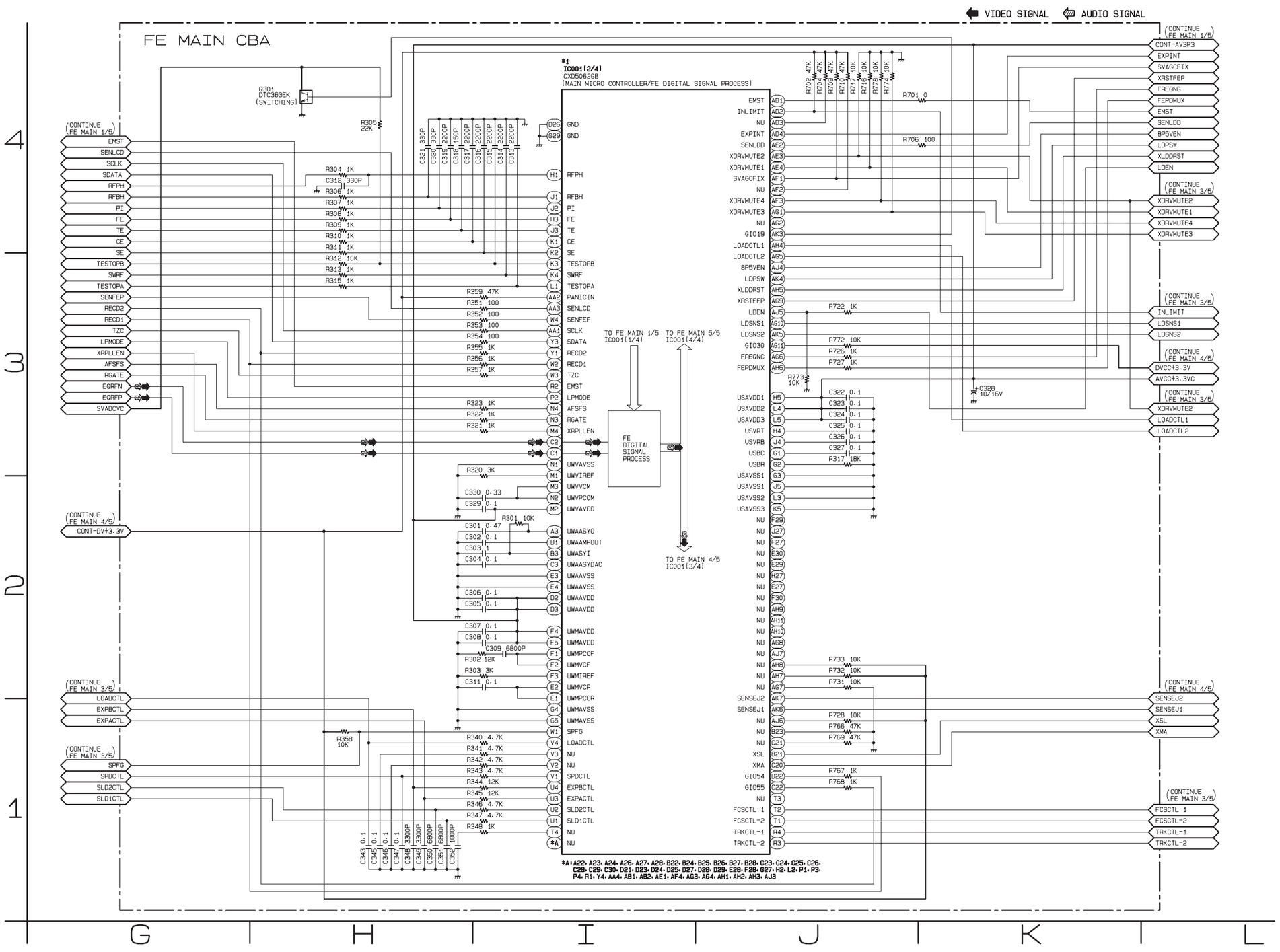
FE Main 1/5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC001.
IC001 is divided into four and shown as IC001 (1/4) ~ IC001 (4/4) in this FE Main Schematic Diagram Section.

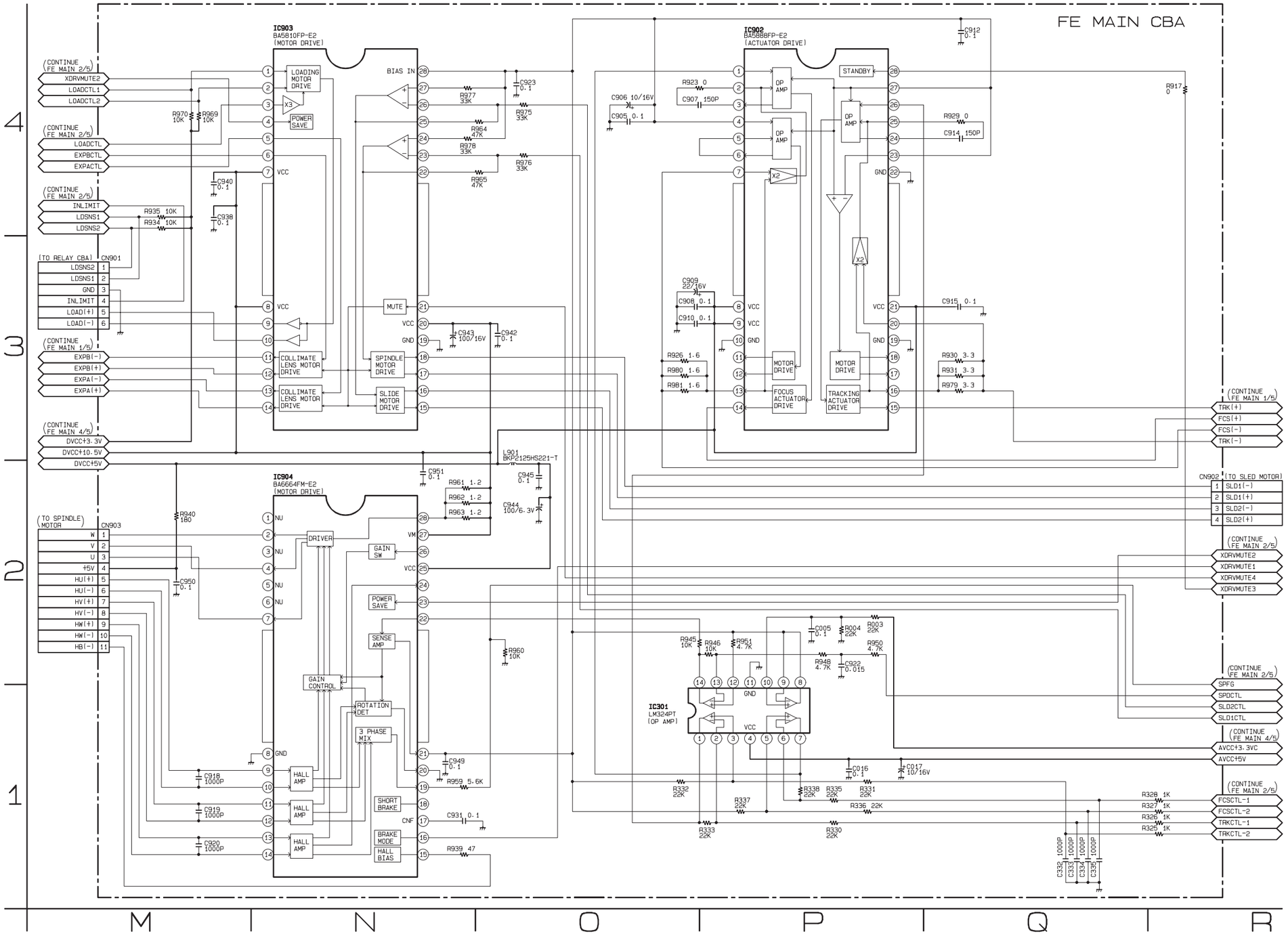


FE Main 2/5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC001.
IC001 is divided into four and shown as IC001 (1/4) ~ IC001 (4/4) in this FE Main Schematic Diagram Section.

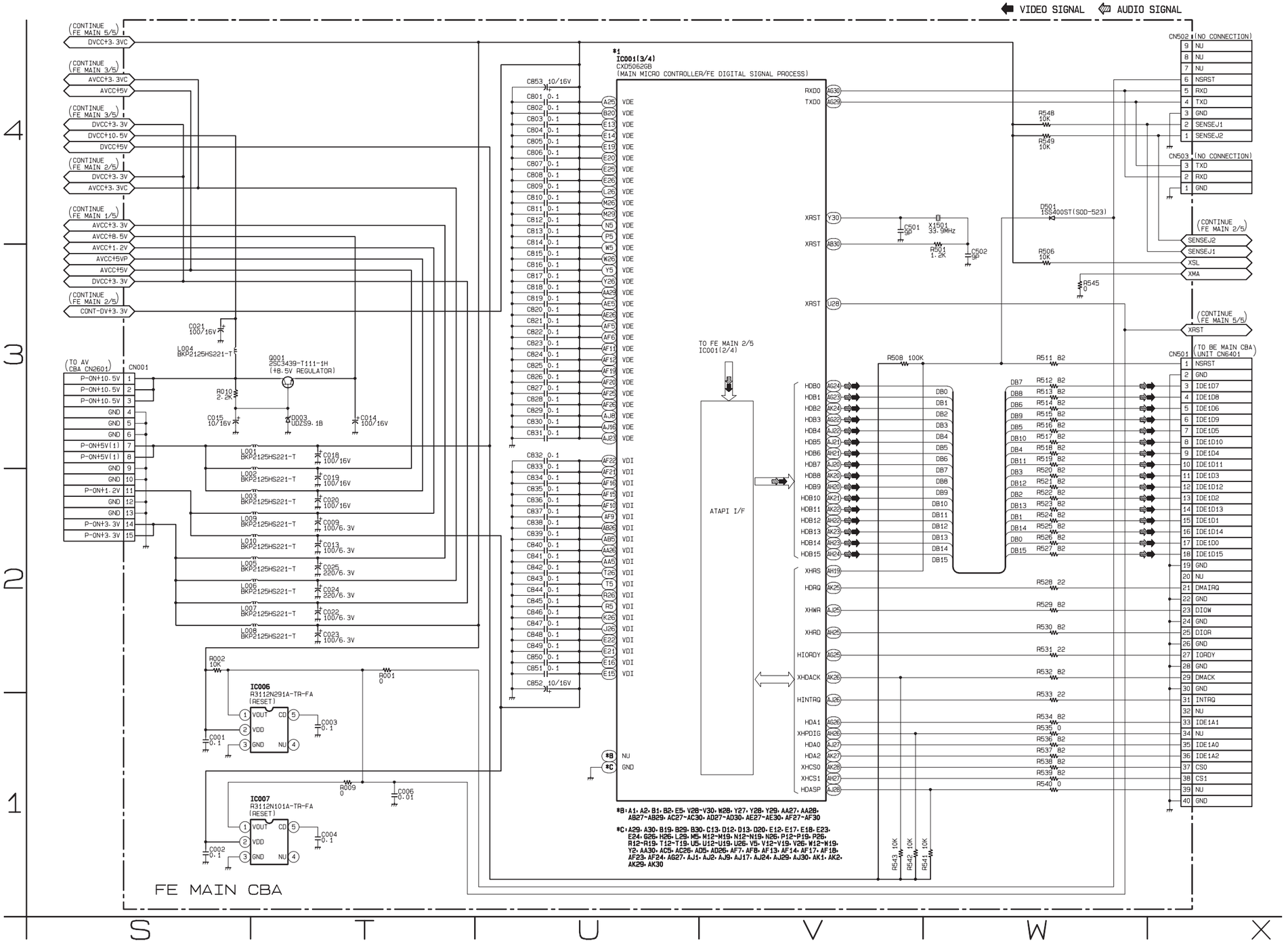

VIDEO SIGNAL
AUDIO SIGNAL
FE MAIN CBA
∗1
IC001(2/4)
CXD5062GB
(MAIN MICRO CONTROLLER/FE DIGITAL SIGNAL PROCESS)
Q301
DTC363EK
(SWITCHING)
FE DIGITAL SIGNAL PROCESS
TO FE MAIN 1/5 IC001(1/4)
TO FE MAIN 5/5 IC001(4/4)
TO FE MAIN 4/5 IC001(3/4)
(CONTINUE FE MAIN 1/5)
(CONTINUE FE MAIN 3/5)
(CONTINUE FE MAIN 4/5)
(CONTINUE FE MAIN 4/5)
(CONTINUE FE MAIN 3/5)
(CONTINUE FE MAIN 3/5)
(CONTINUE FE MAIN 4/5)
(CONTINUE FE MAIN 3/5)
(CONTINUE FE MAIN 3/5)
(CONTINUE FE MAIN 4/5)
(CONTINUE FE MAIN 3/5)
∗A: A22, A23, A24, A26, A27, A28, B22, B24, B25, B26, B27, B28, C23, C24, C25, C26, C28, C29, C30, D21, D23, D24, D25, D27, D28, D29, E28, F28, G27, H2, L2, P1, P3, P4, R1, Y4, AA4, AB1, AB2, AE1, AF4, AG3, AG4, AH1, AH2, AH3, AJ3

FE Main 3/5 Schematic Diagram



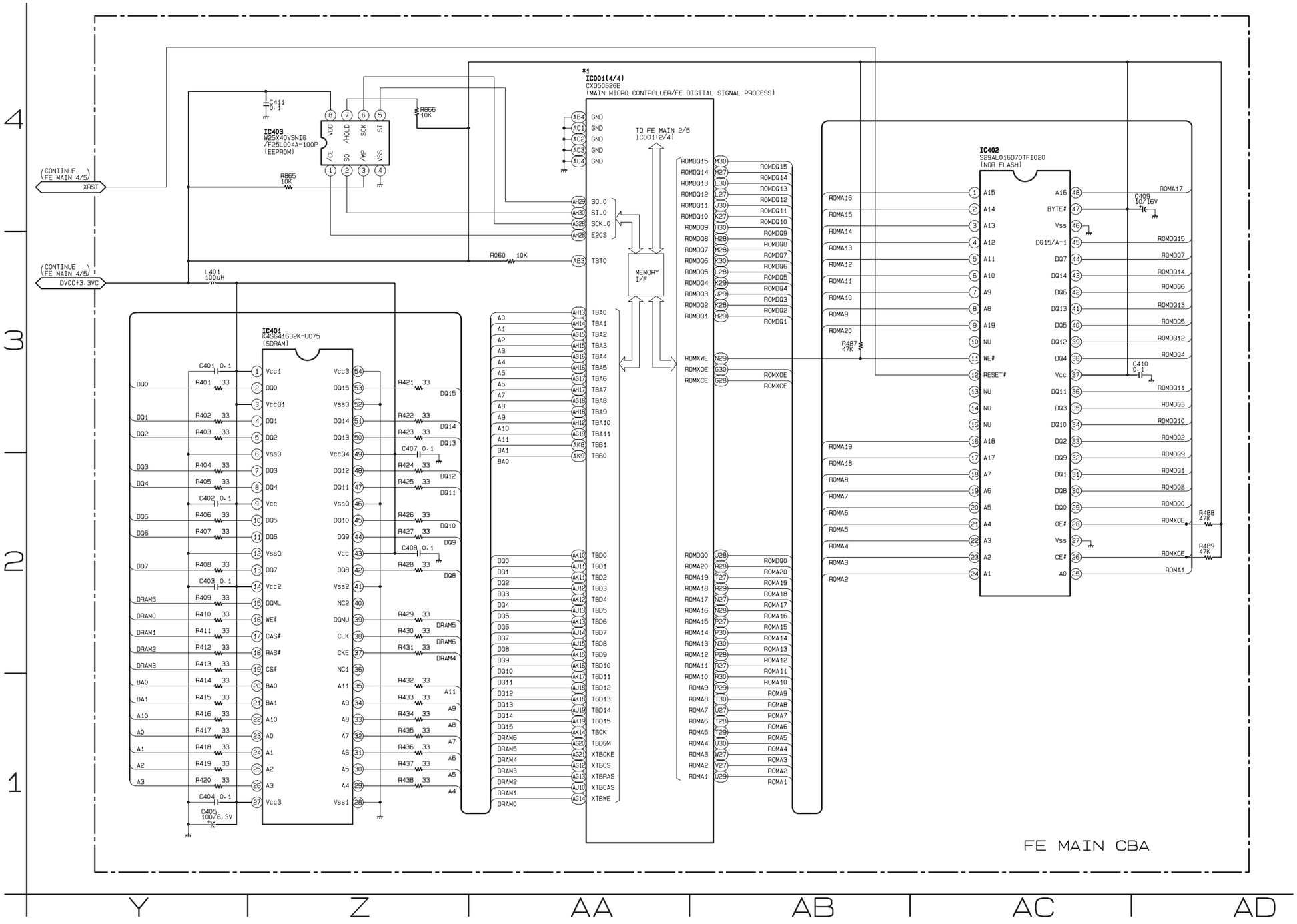
FE Main 4/5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC001.
IC001 is divided into four and shown as IC001 (1/4) ~ IC001 (4/4) in this FE Main Schematic Diagram Section.



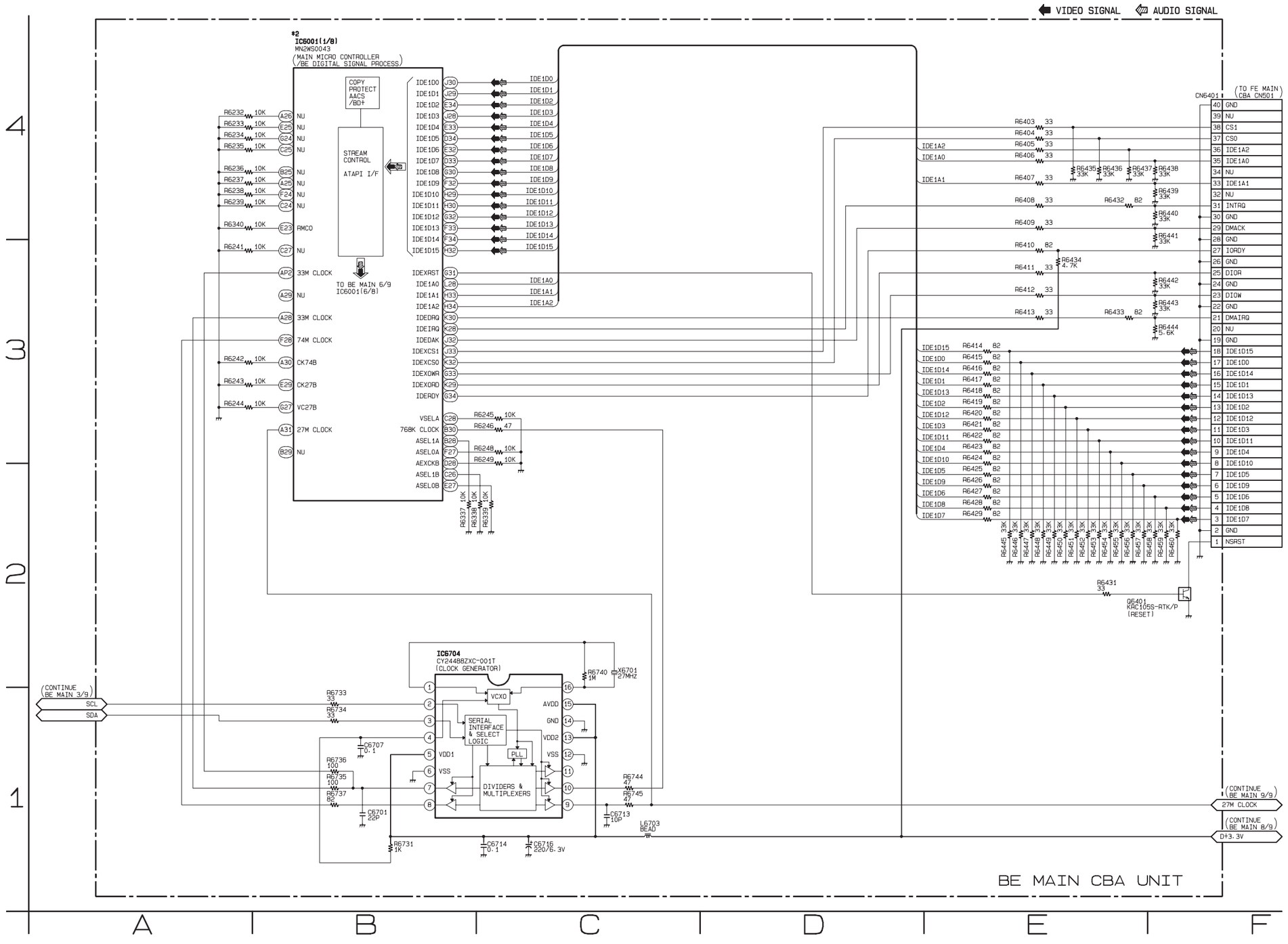
FE Main 5/5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC001.
IC001 is divided into four and shown as IC001 (1/4) ~ IC001 (4/4) in this FE Main Schematic Diagram Section.



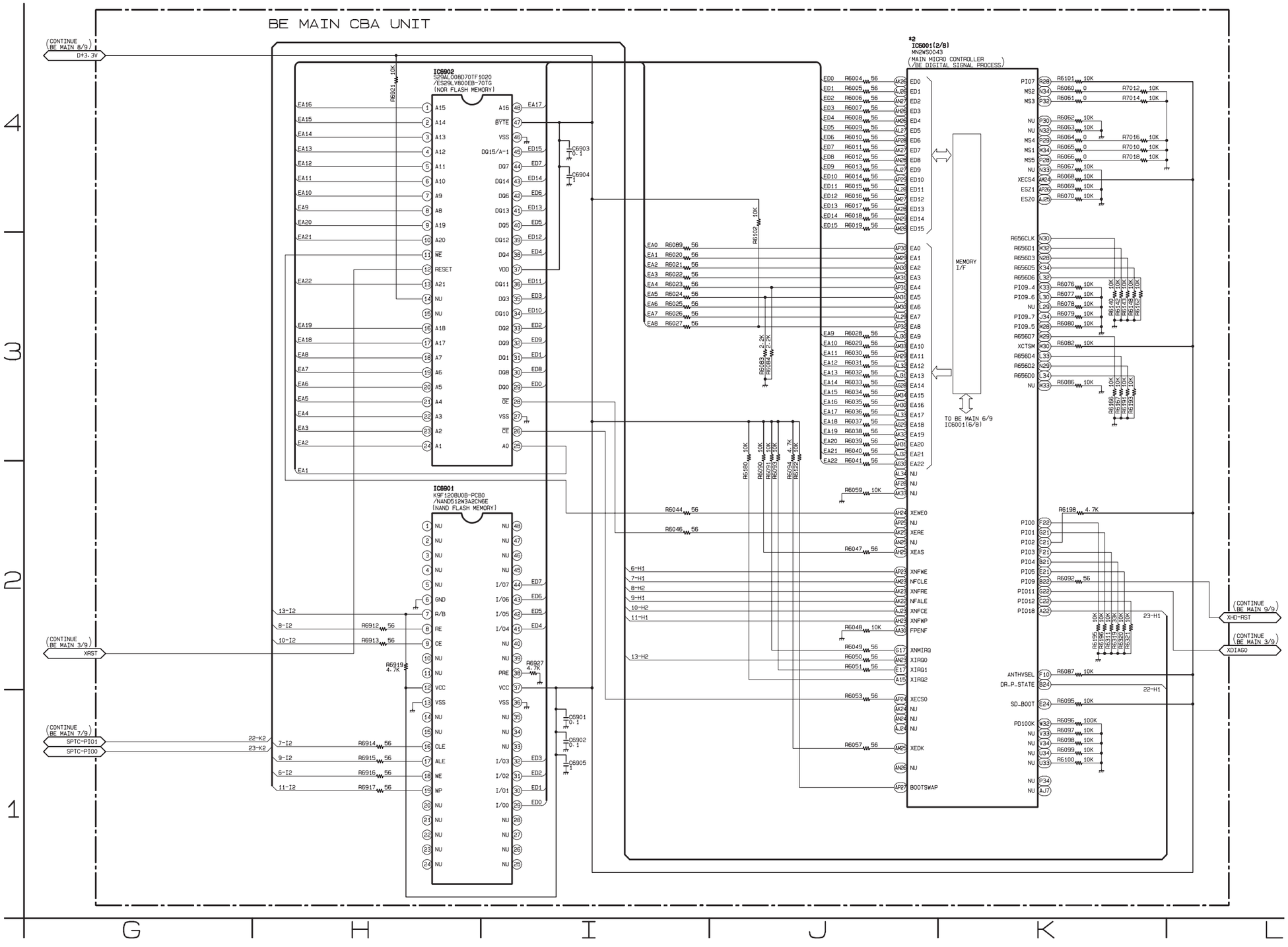
BE Main 1/9 Schematic Diagram

∗2 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



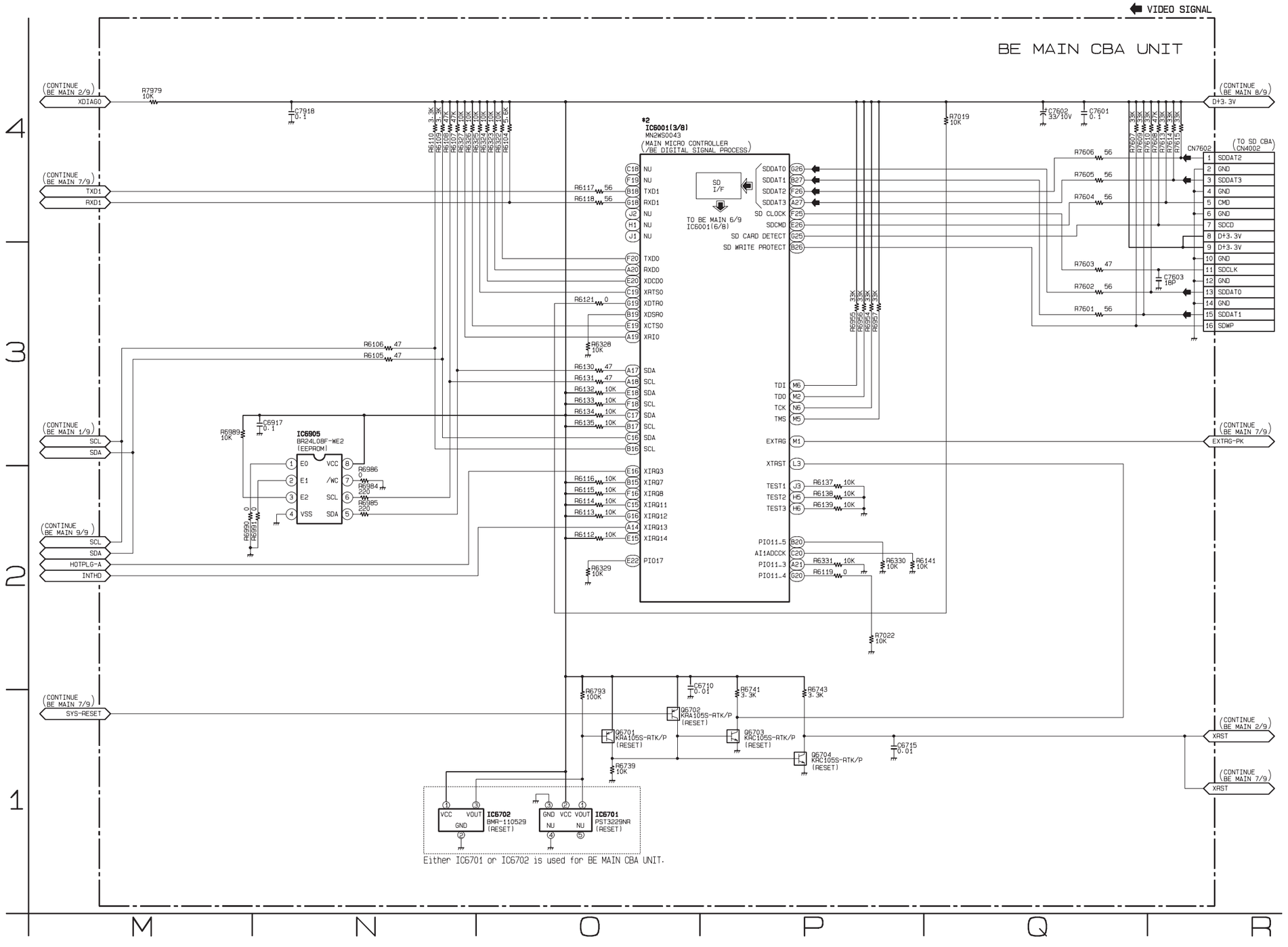
BE Main 2/9 Schematic Diagram

*2 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



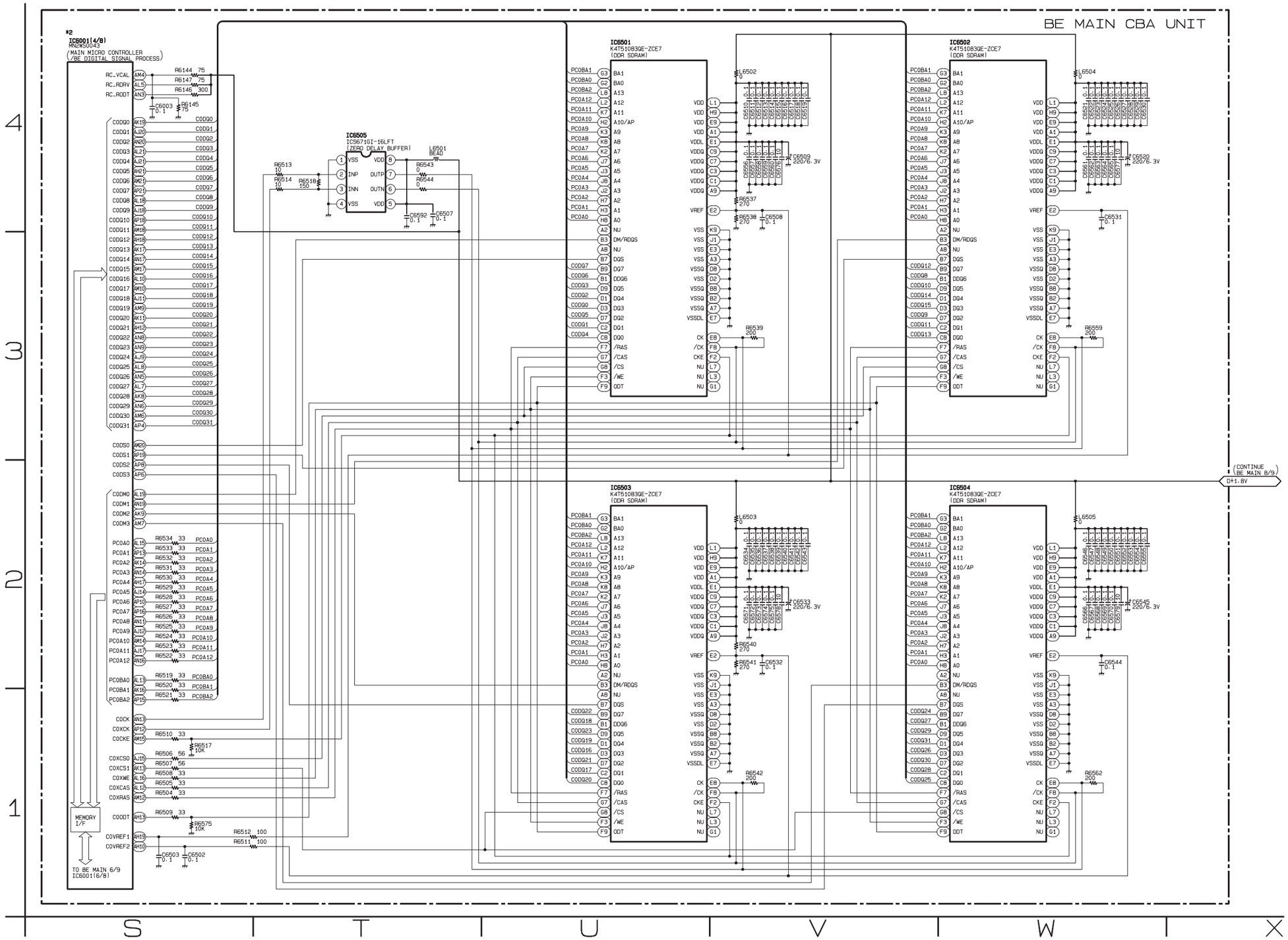
BE Main 3/9 Schematic Diagram

∗2 NOTE:
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



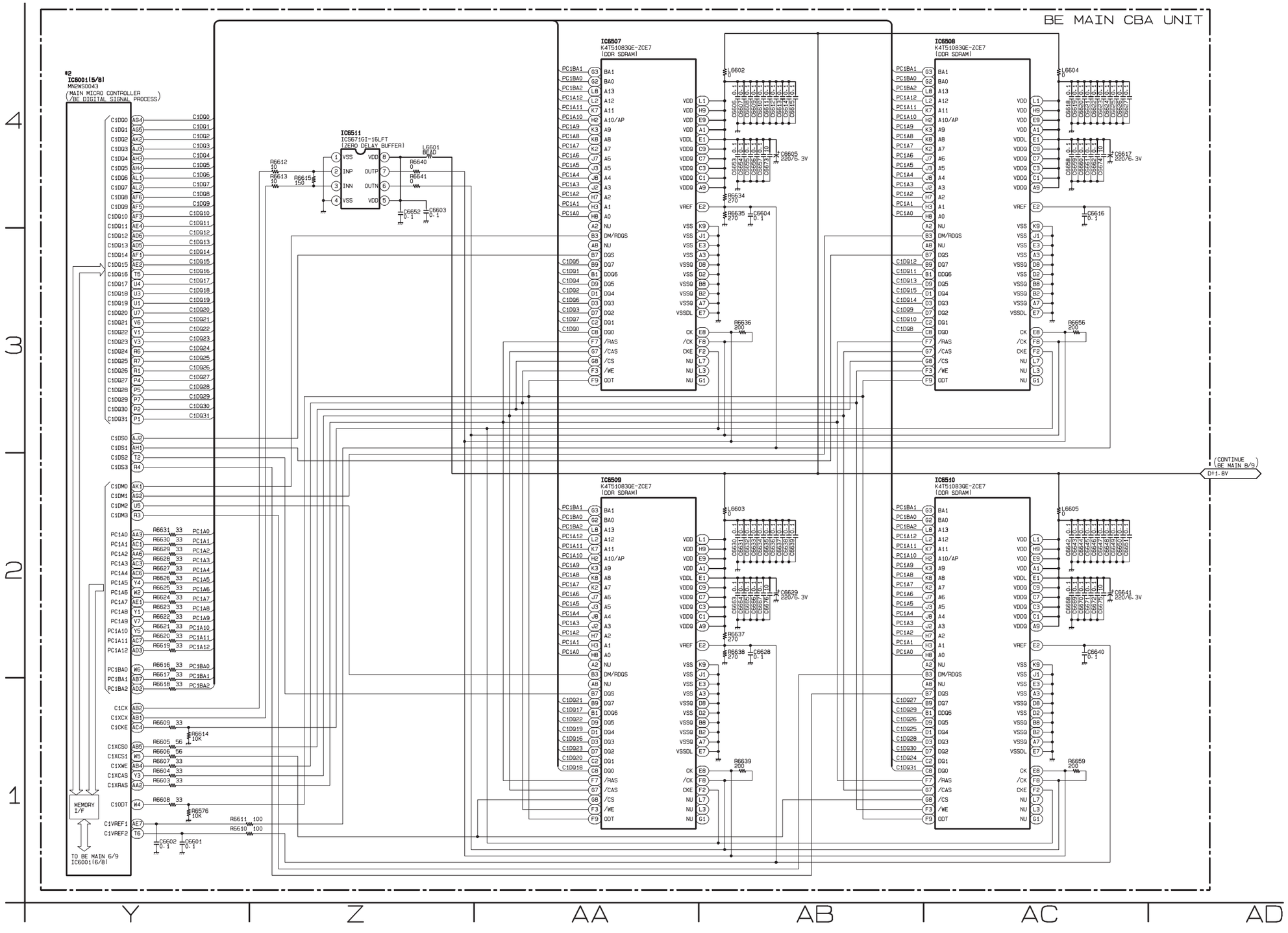
BE Main 4/9 Schematic Diagram

∗2 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



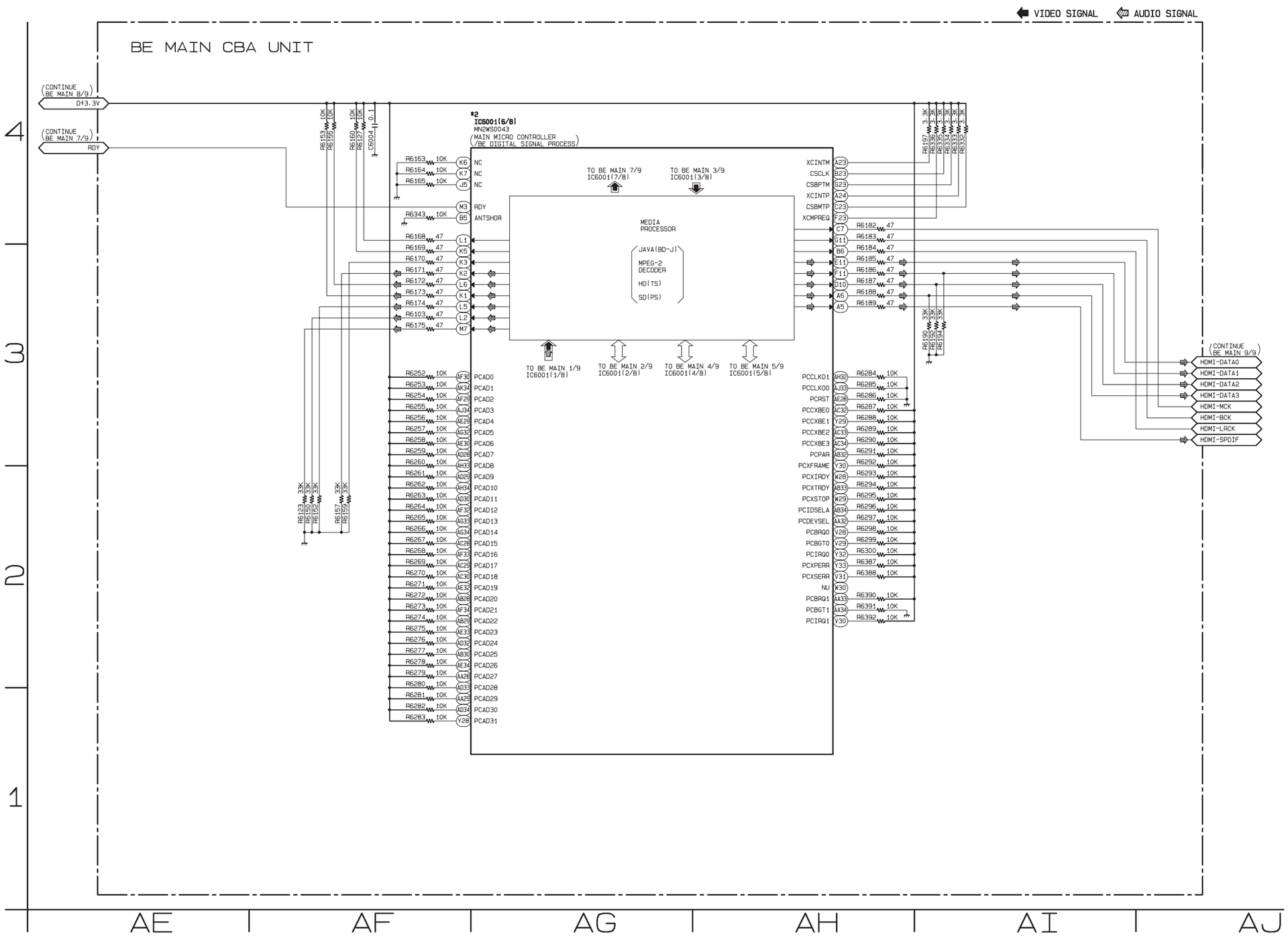
BE Main 5/9 Schematic Diagram

∗2 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



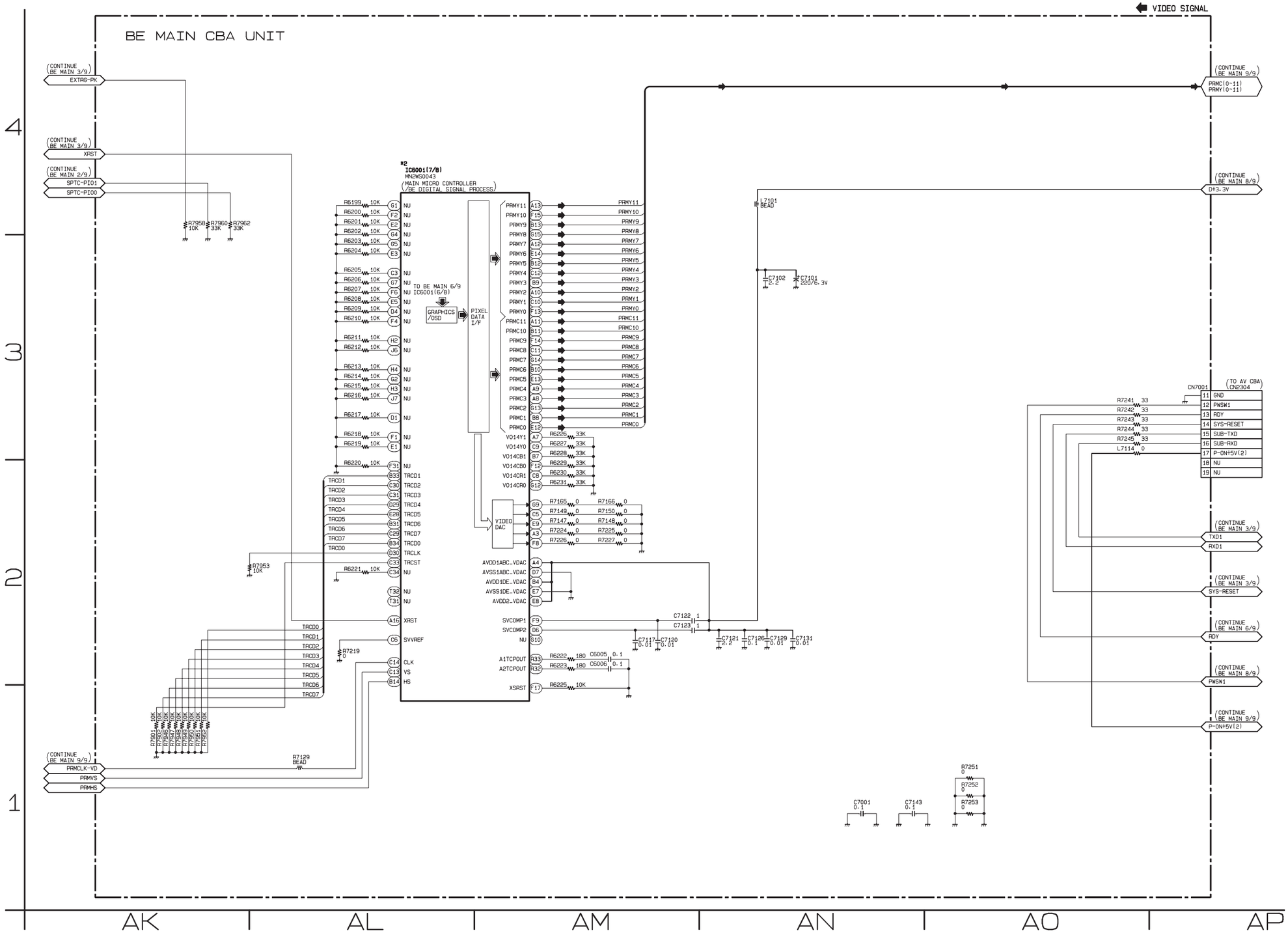
BE Main 6/9 Schematic Diagram

＊2 NOTE:
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



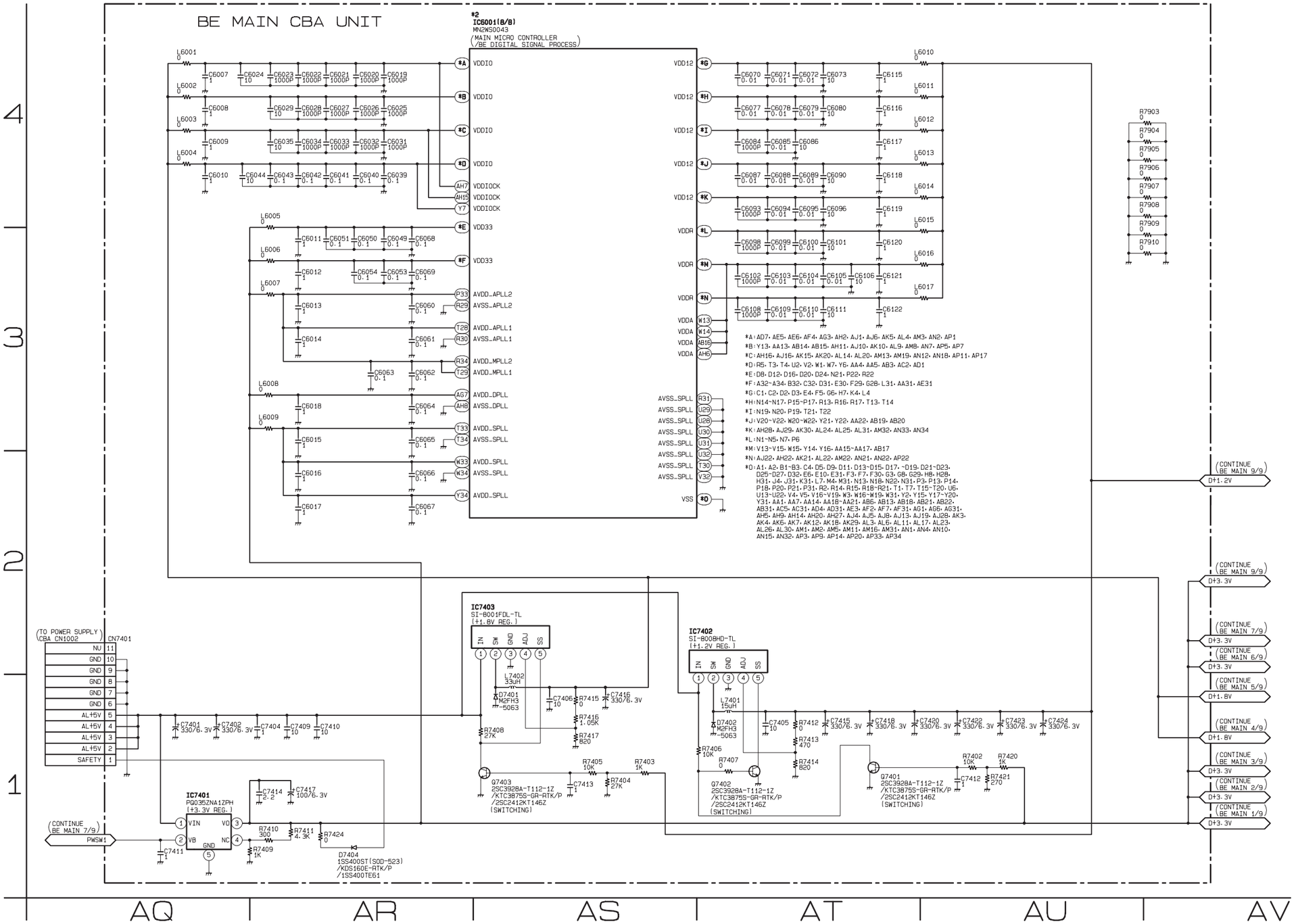
BE Main 7/9 Schematic Diagram

＊2 NOTE:
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.

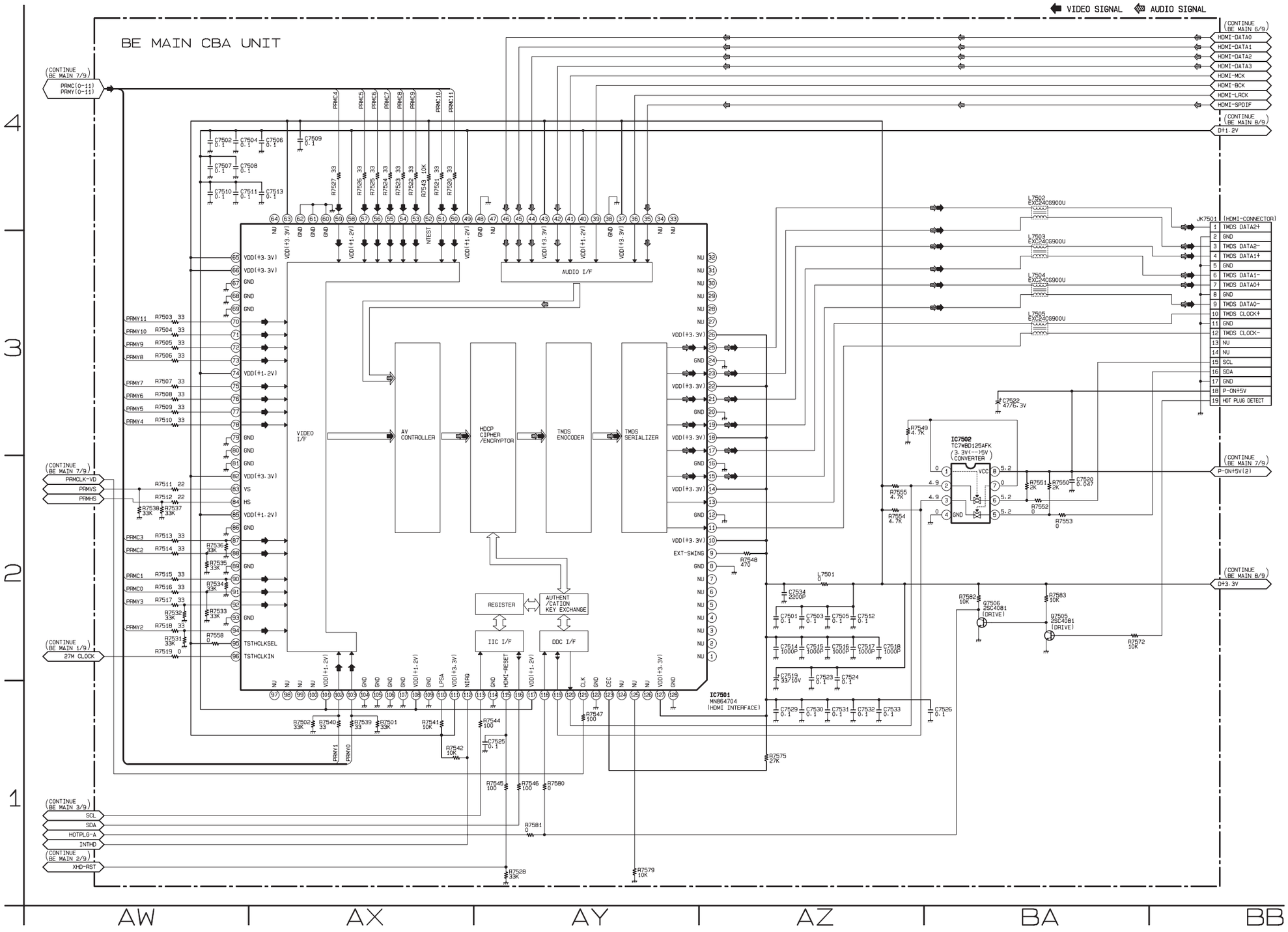


BE Main 8/9 Schematic Diagram

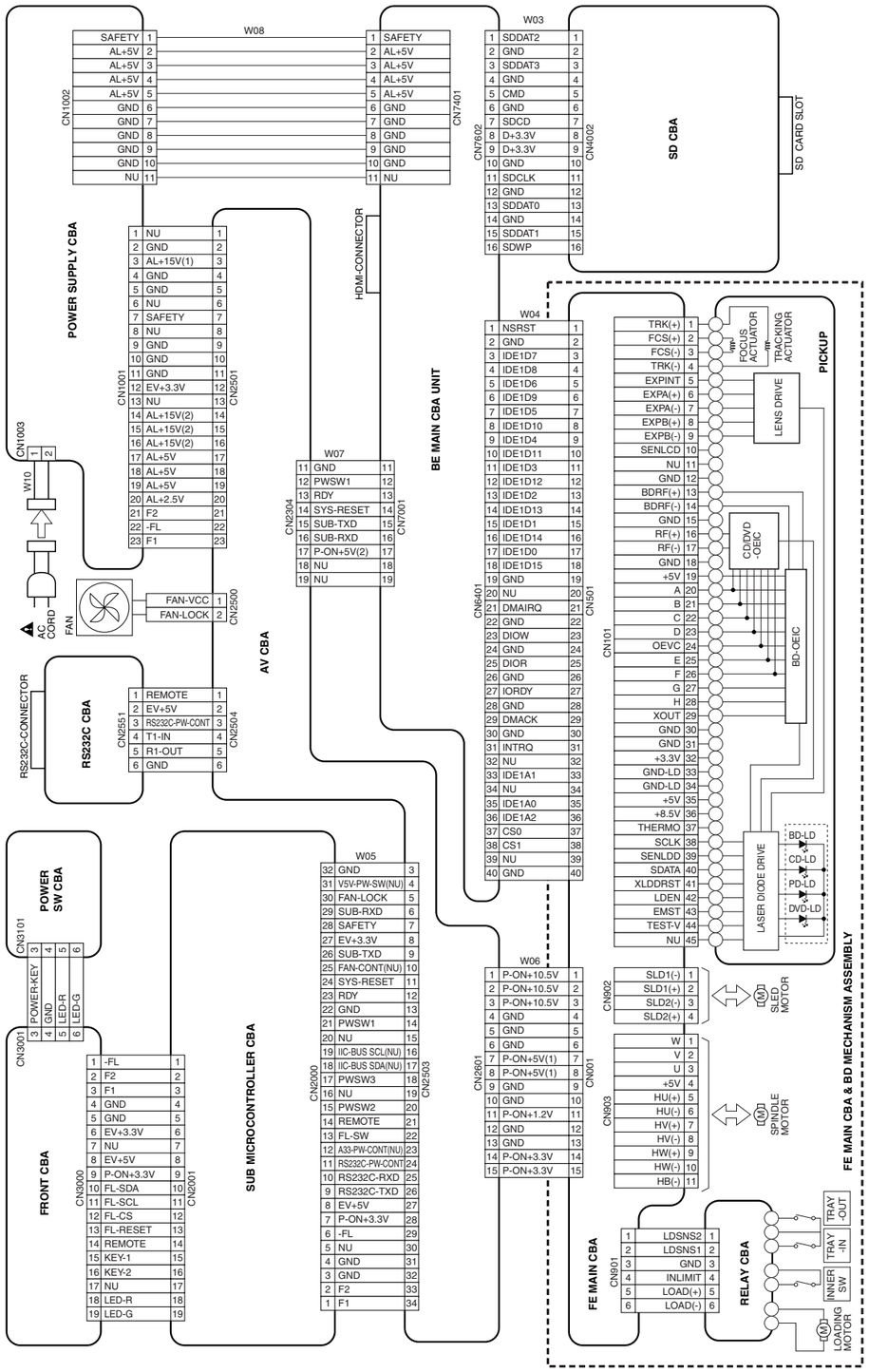
∗2 NOTE:
The order of pins shown in this diagram is different from that of actual IC6001.
IC6001 is divided into eight and shown as IC6001 (1/8) ~ IC6001 (8/8) in this BE Main Schematic Diagram Section.



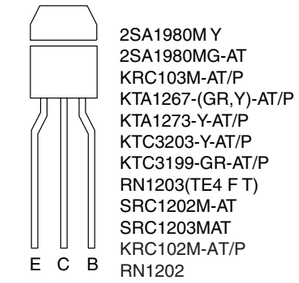
BE Main 9/9 Schematic Diagram



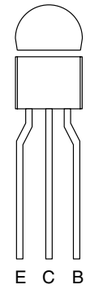
WIRING DIAGRAM



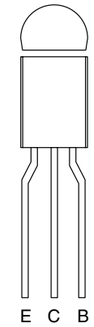
LEAD IDENTIFICATIONS



2SA1980M Y
2SA1980MG-AT
KRC103M-AT/P
KTA1267-(GR,Y)-AT/P
KTA1273-Y-AT/P
KTC3203-Y-AT/P
KTC3199-GR-AT/P
RN1203(TE4 F T)
SRC1202M-AT
SRC1203MAT
KRC102M-AT/P
RN1202

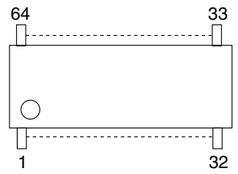


2SA950-Y(TE2 F T)
2SA966-Y(TE6 F M)
2SA1015-(GR,Y)(TE2 F T)
2SA1981Y-AT
2SC1815-GR(TE2 F T)
2SC2120-Y(TE2 F T)
2SC5343MG-AT
2SC5344 Y
KTA1271-Y-AT/P

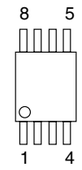


STB1277LY-AT

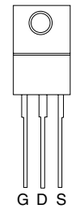
PT6302-R-001(L)



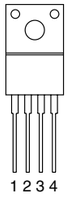
CXA1511M-T4
FA5542N-A2-TE1



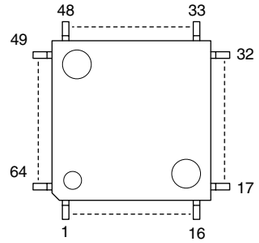
2SK3563(Q)
KHB4D5N60F-U/PMC



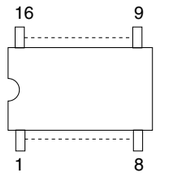
PQ070XF02SZH



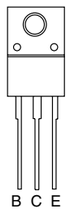
MN101C77AFS



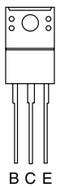
ADM232AARN



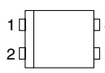
2SD2012(F M)



KTC2026-Y/P

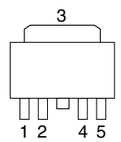


EL817B
PS2561A-1(Q,W)

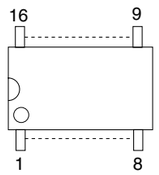


1: Anode
2: Cathode
3: Emitter
4: Collector

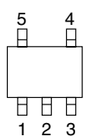
PQ035ZN01ZPH
PQ035ZNA1ZPH



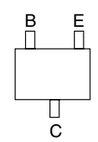
SP232ACN-L/TR



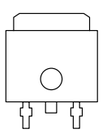
BU4229G-TR
PST3630NR



2SA1530A-T112-1Z
2SA1980SFY
KTA1504S-Y-RTK/P



STC403



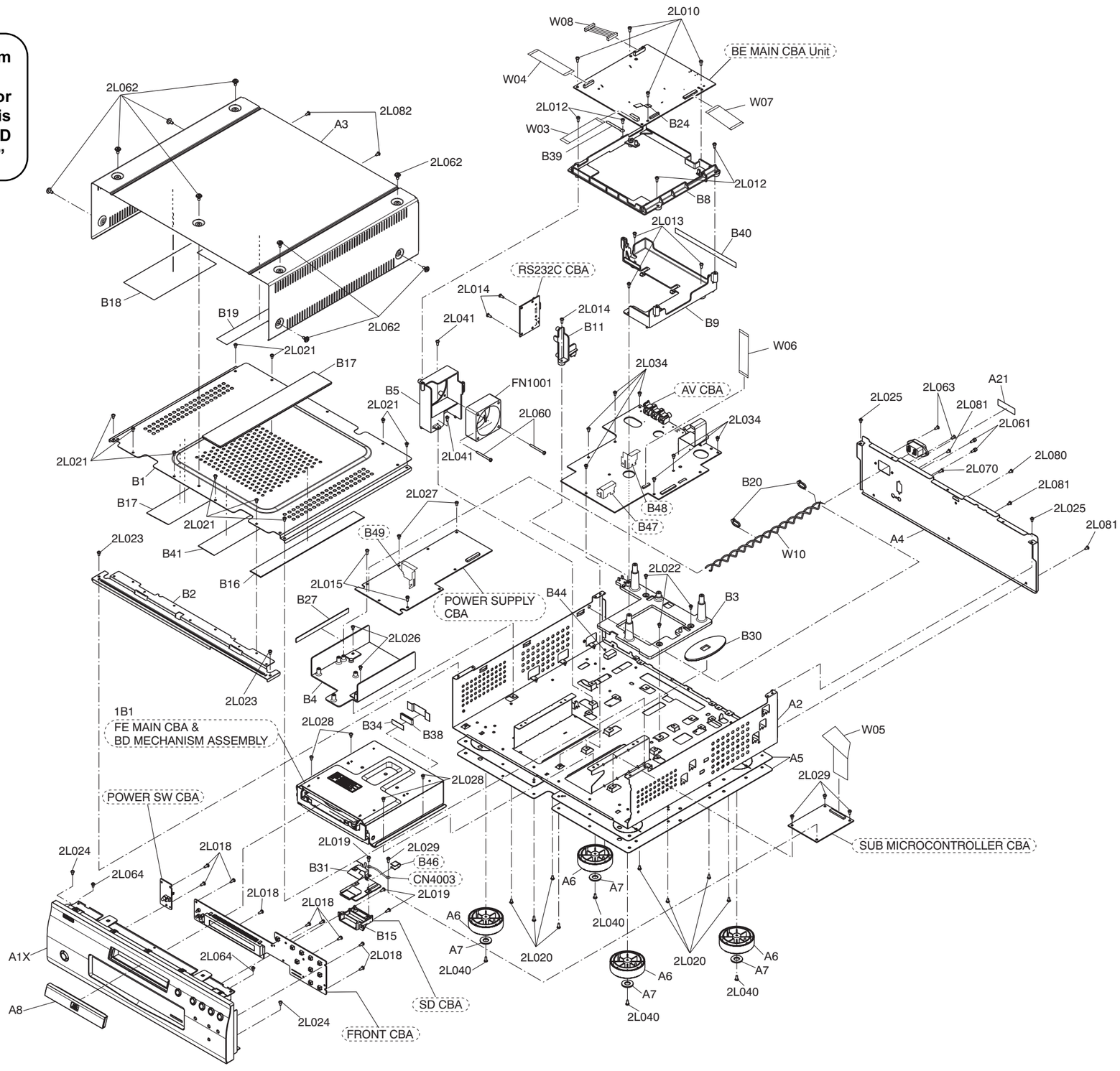
Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
G: Gate
D: Drain
S: Source

---MEMO---

EXPLODED VIEWS

Cabinet

Note: Be sure to unplug the power cord from the power outlet before disassembling. "Current continues to flow in the set for 10 to 20 seconds after the power cord is unplugged. Wait until the power LED turns completely off before proceeding."



PARTS LIST OF EXPLODED VIEW

＊本表に "nsp" と記載されている部品は供給できません。
＊ Parts for which "nsp" is indicated on this table cannot be supplied.

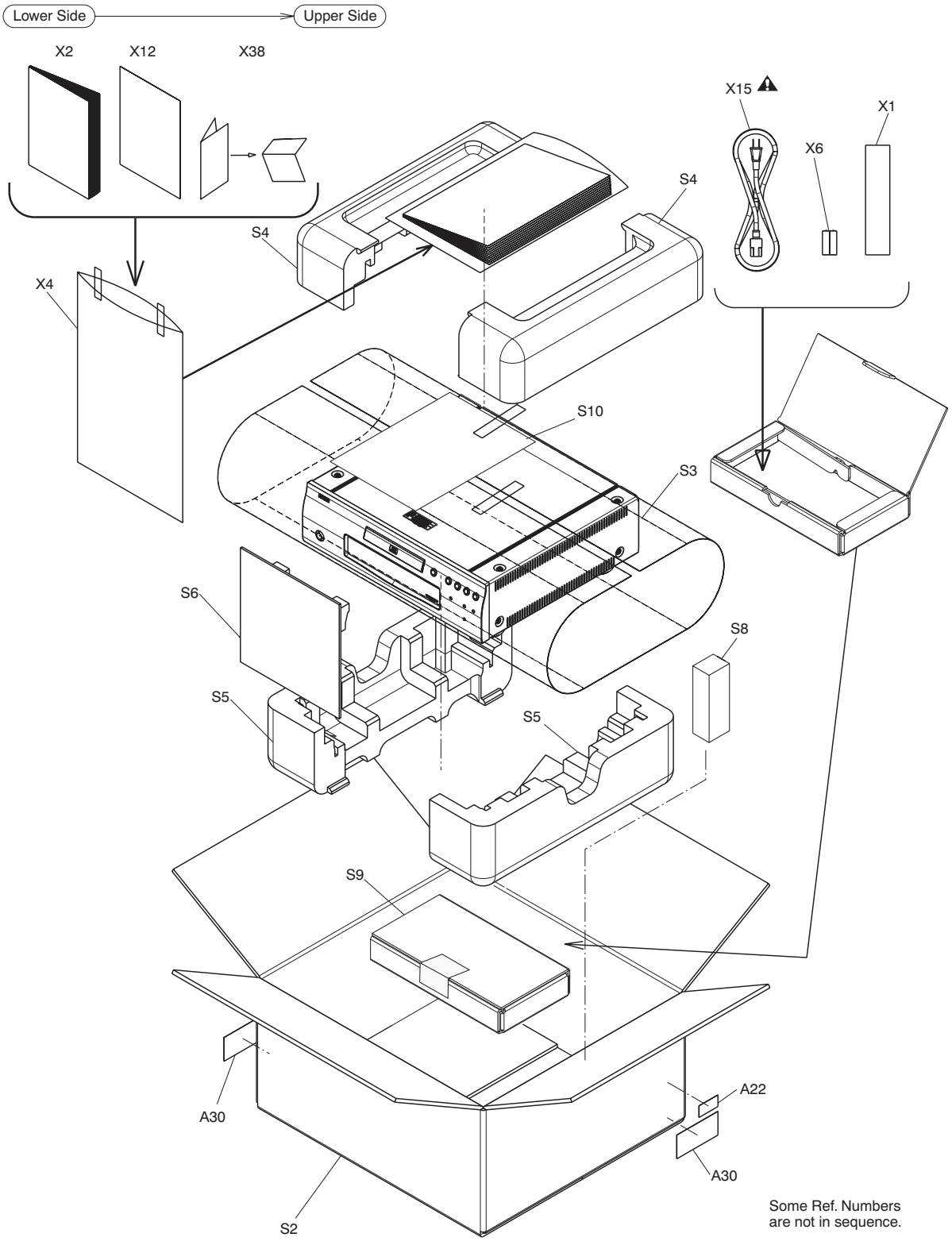
＊本表に "nsp" と記載されている基板 ASS'Y は供給できません。基板 ASS'Y の修理の際には基板部品表を確認のうえ、交換部品を発注してください。
＊ P.W.B. ASS'Y for which "nsp" is indicated on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts table and order replacement parts.

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
＊ The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

	Ref. No.	Part No.	Part Name	Remark		Q'ty	New
		00D9H26000943	BE MAIN CBA UNIT		1VSA16866	1	*
		00D9H26000944	AV ASSEMBLY		1VSA16867	1	*
		-	AV CBA				
		-	SUB MICROCONTROLLER CBA				
		-	RC232C CBA				
		00D9H26000953	POWER SUPPLY CBA		1VSA16825	1	*
		00D9H26000955	FRONT ASSEMBLY		1VSA16851	1	*
		-	FRONT CBA				
		-	POWER SW CBA				
		00D9H26000954	SD CBA		1VSA16864	1	*
	A1X	00D9H26000945	FRONT ASSEMBLY E5E01UD		1VM121439	1	*
	A2	nsp	CHASSIS E5E00UD		1VM020691	1	*
	A3	00D9H26000946	TOP COVER E5E00UD		1VM020690	1	*
	A4	00D9H26000947	REAR PANEL E5E01UD		1VM223696	1	*
	A5	nsp	BOTTOM PANEL E5E00UD		1VM223212	2	*
	A6	00D1040334007	FOOT		1VM426219	4	
	A7	00D4611050005	RUBBER PAD		1VM426239	4	
	A8	00D9H26000948	TRAY ASSEMBLY(BLACK) E5E00UD		1VM223619	1	*
	A21	nsp	LABEL SERIAL NO. E57E0UD		-	1	*
	1B1	00D9H26000942	FE MAIN CBA & BD MECHANISM ASSEMBLY		N77D0AUN	1	*
	B1	nsp	TOP PANEL E5E00UD		1VM223211	1	*
	B2	nsp	FRONT BRAKET E5E00UD		1VM324206	1	*
	B3	nsp	PDESTAL E5E00UD		1VM121240	1	*
	B4	nsp	POWER PCB HOLDER E5E00UD		1VM223219	1	*
	B5	nsp	FAN HOLDER E5E00UD		1VM223222	1	*
	B8	nsp	BE SCALER HOLDER(ENTRY) E5E01UD		1VM121381	1	*
	B9	nsp	BE SCALER SUB HOLDER E5E00UD		1VM121242	1	*
	B11	nsp	RS232 HOLDER(ENTRY) E5E01UD		1VM324702	1	*
	B15	nsp	SD PCB HOLDER E5E00UD		1VM324231	1	*
	B16	nsp	NEOPRENE SPONGE(250X25X2) E5E00UD		1VM427820	1	*
	B17	nsp	NEOPRENE SPONGE(250X50X1) E5E00UD		1VM427821	1	*
	B18	nsp	NEOPRENE SPONGE(250X25+150X50) E5E00UD		1VM427822	1	*
	B19	nsp	NEOPRENE SPONGE(250X25X1) E5E00UD		1VM427819	1	*
	B20	nsp	LEAD CLAMPER 100MM		1790356	2	*
	B24	nsp	MACHA EARTH PLATE R E9H10UD		1VM425524	1	*
	B27	nsp	NEOPRENE SPONGE(8X120) E5E00UD		1VM427440	1	*
	B30	nsp	BASS RUBBER E5E00UD		1VM427420	1	*
	B31	nsp	SD EARTH PLATE E5E00UD		1VM224376	1	*
	B39	nsp	COATING CLIP S-3		XF01054WD001	1	*
	B40	nsp	TAPE HIMELON(10X150) E5E00UD		1VM427421	1	*
	B41	nsp	INSULATION SHEET(TOP PANEL) E5E00UD		1VM427779	1	*
	B42	nsp	INSULATION SHEET(LOADER) E5E00UD		1VM326057	1	*
	B43	nsp	WIRE ASSEMBLY RING TERMINAL 1PIN 80MM		WX1E5E01-012	1	*

	Ref. No.	Part No.	Part Name	Remark		Q'ty	New
SCREWS							
	2L010	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	2	
	2L012	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	3	
	2L013	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	1	
	2L014	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	3	
	2L015	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	3	
	2L018	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	9	
	2L019	nsp	SCREW P-TIGHT M3X8 BIND HEAD+		GBJP3080	3	
	2L020	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	8	
	2L021	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	10	
	2L022	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	3	
	2L023	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	2	
	2L024	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	2	
	2L025	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	2	
	2L026	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	2	
	2L027	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	2	
	2L028	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	4	
	2L029	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	4	
	2L034	nsp	SCREW S-TIGHT M3X6 BIND HEAD+		GBJS3060	7	
	2L040	nsp	SCREW S-TIGHT M3X8 BIND HEAD+		GBJS3080	4	
	2L041	nsp	SCREW S-TIGHT M3X8 BIND HEAD+		GBJS3080	2	
	2L060	nsp	P-TIGHT SCREW M3X34 E9400UD		1VM420034A	2	
	2L061	nsp	HEXAGON SPACER E6AE0UD		1VM424730	2	
	2L062	nsp	TOP COVER SCREW S-TIGHT SCREW M4X8		1VM425652	9	
	2L064		SCREW			2	
	2L063	nsp	SCREW S-TIGHT M3X8 DISH HEAD+		GDHS3080	2	
	2L070	nsp	SCREW B-TIGHT M3X8 BIND HEAD+		GBHB3080	1	
	2L080	nsp	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		GBHC3050	1	
	2L081	nsp	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		GBHC3050	3	
	2L082	nsp	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI		GBHC3050	2	

Packing


Lower Side
Upper Side
X2
X12
X38
X15
X1
X6
S4
S4
X4
S10
S3
S6
S8
S5
S5
S9
A30
A22
A30
S2
Some Ref. Numbers
are not in sequence.

PARTS LIST OF PACKING & ACCESSORIES

＊ 本表に "nsp" と記載されている部品は供給できません。
＊ Parts for which "nsp" is indicated on this table cannot be supplied.

＊ 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
＊ The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

	Ref. No.	Part No.	Part Name	Remark		Q'ty	New
	A22	nsp	BAR CODE LABEL E5E01UD		-	1	*
	A30	nsp	CONTROL LABEL E5E01UD		-	1	*
	S2	00D9H26000949	GIFT BOX CARTON E5E01UD		1VM325357	1	*
	S3	00D9H26000933	WRAPPING SHEET(MIRROR MAT) E5E00UD		1VM426159	1	*
	S4	00D9H26000934	TOP SIDE PAD E5E01UD		1VM121561	2	*
	S5	00D9H26000935	BOTTOM SIDE PAD E5E00UD		1VM121380	2	*
	S6	00D9H26000936	FRONT PAD E5E00UD		1VM325022	1	*
	S8	00D9H26000938	REAR PAD E5E01UD		1VM427521	1	*
	S9	nsp	ACCESSORY BOX E5E00UD		1VM325939	1	*
	S10	nsp	PACKING SHEET			1	*
	X1	00D9H26000950	REMOTE CONTROL UNIT NA843UD		NA843UD	1	*
	X2	00D9H26000951	OWNERS MANUAL E5E01UD		1VMN24373	1	*
	X4	00D9H26000513	ACCESSORY BAG E5795ED		0VM416059	1	*
	X6	nsp	DRY BATTERY R6P/2S		XB0M451T0001	2	*
	X6	nsp	DRY BATTERY R6UW/2S		XB0M311MS001	2	*
	X6	nsp	DRY BATTERY ES-GR6M-C		XB0M571GLP01	2	*
	X12	nsp	SERVICE CENTER SHEET E8700UD		1VM425536	1	*
⚠	X15	00D9H26000952	AC CORD W/O A GND WIRE UL/CSA/202/NO/BLACK		WAV0202LTE01	1	*
	X38	nsp	WARRANTY SHEET E6E80UD		1VM323952	1	*